UNTiL NOW.

INCOMINE TO THE PROPERTY OF TH

This brain tractography represents the long-distance connections between areas of a human brain, modeled from the white matter, tissue of the central nervous system made of axons and electrical links between neurons. It is reconstructed by the Living Brain team at Dassault Systèmes and used to model the propagation of brain activity in normal and pathological conditions such as epilepsy. It is an essential part of a virtual twin of the brain.

Credit: Dassault Systèmes; design by Rayan Mauroux

UNTIL NOW. . .

Products and services were not conceived as memorable experiences for the Experience Economy. Organizations acted without a true understanding of their consumers consumers, patients and citizens. Healthcare advanced through trial and error, with patients as test subjects. Cities and infrastructure were built piecemeal, without full consideration of needs or impacts. Workplaces focused on safety but ignored employee well-being. And sustainability was an add on, not baked in.

...FROM NOW ON

We will use virtual worlds as our information engines and testing grounds, driving experiences and innovations that deliver on the promise of the Experience Economy. With knowledge collected through continuous feedback loops, organizations will understand and deliver what customers, patients and citizens expect in today's competitive battleground: stellar experiences, perfected in virtual worlds, that improve users' lives and keep the good of our planet at the forefront.

What will this look like? Healthcare personalized to each patient, informed by their unique physiologies and body chemistries. Cities reshaped to accommodate new realities, from soaring populations to climate change, to nurture those who live there. Workplaces built not just for the businesses they house but for the well-being and productivity of those who work there. And all of it sustainable, because it was conceived with the dynamic, real-time knowledge and know-how delivered by virtual twins on the **3D**EXPERIENCE platform, ensuring that the planet's health is never an afterthought.

The Experience Economy is a human-centered economy crafted for the benefit of all: consumers, patients and citizens. From now on, the means to create it is here.

TABLE OF CONTENTS CORPORATE REPORT 2022

STRATEGIC VISION
PAGE 04

STRATEGIC OPERATIONAL ELEMENTS

PAGE 12

GOVERNANCEPAGE 10

FINANCIAL PERFORMANCE 2022

PAGE 14

UNTIL NOW, MEDICAL ADVANCES RESULTED FROM TRIAL AND ERROR

PAGE 18



UNTIL NOW, DECISIONS ABOUT
CITIES AND INFRASTRUCTURE WERE
MADE BY OFFICIALS ALONE

PAGE 26

UNTIL NOW, MANUFACTURING COMPANIES WERE PRIMARILY FOCUSED ON PUTTING OUT THE BEST PRODUCTS TO MARKET

PAGE 34



2



UNTIL NOW, COMPANIES AND ENTREPRENEURS WERE COMPETING TO BRING IDEAS TO MARKET

PAGE 40



PAGE 44





UNTIL NOW, CITIES AND
INFRASTRUCTURE WERE DEVELOPED
BIT BY BIT, WITHOUT CONSIDERATION
FOR COMPREHENSIVE NEEDS OR
SYSTEMATIC IMPACTS

PAGE 52

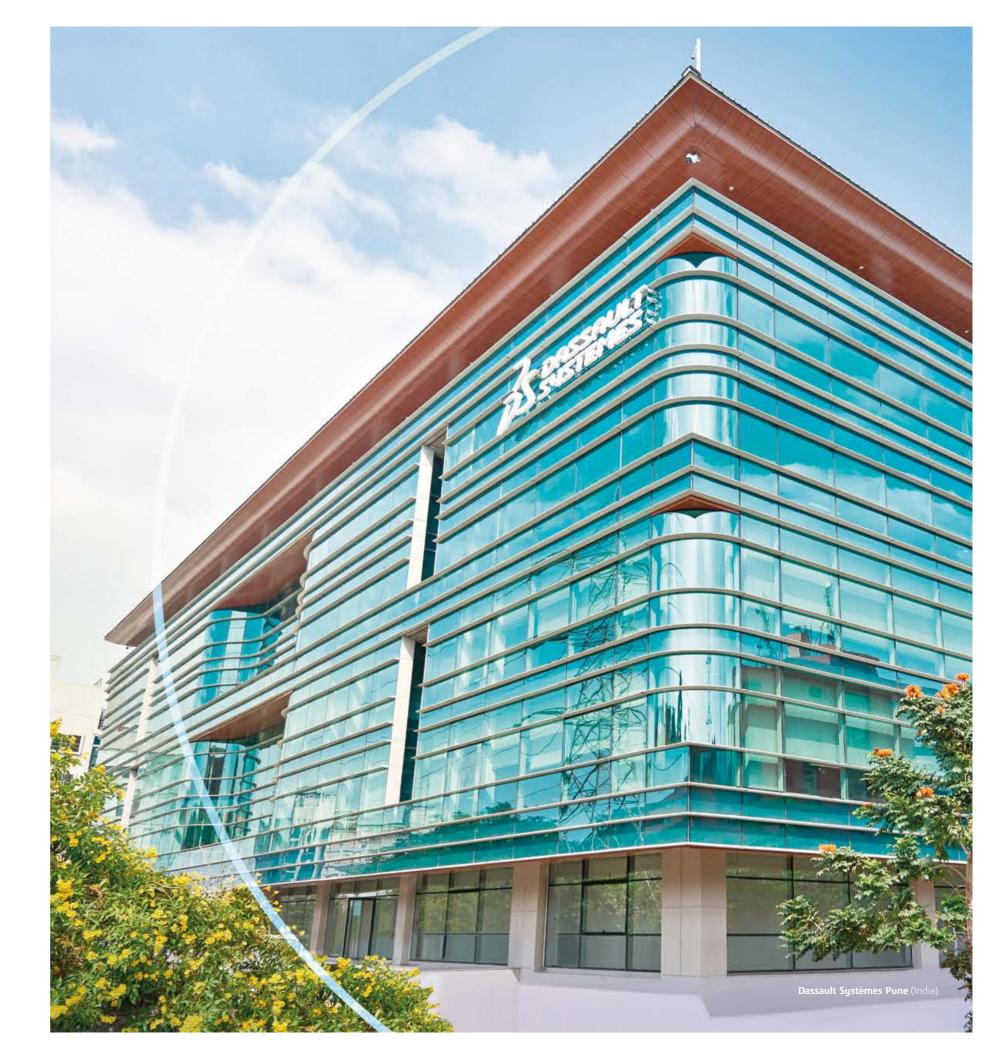
UNTIL NOW

software has been used primarily to design and manufacture products

FROM NOW ON

the scientific principles built into virtual twin experience are driving differentiated offerings and operating models benefiting people and our planet

As we look to our next horizon – 2040 – we believe that fostering the connection between the Experience Economy and the Sustainable Economy requires not transformation, but metamorphosis. We must apply the lessons of living things to all, revealing and leveraging the science that underlies everything. Our science-based virtual twin experiences achieve this by harnessing a wide range of multiscale scientific disciplines – including biology, chemistry, materials science, mechanics and electromagnetism. Transformed by our AI engines into structured knowledge and know-how, we can now apply science-based virtual twins to harmonize product, nature and life for the benefit of people and our planet. Because the only progress is human.



STRATEGIC VISION CORPORATE REPORT 2022

Imagine new frontiers

Bernard Charlès Chairman & Chief Executive Officer Charles Edelstenne Founder &

Honorary Chairman

Our valued customers and partners see reinventing a sustainable economy as both a challenge and a significant opportunity to differentiate. They rely on Dassault Systèmes to imagine new solutions, create differentiated offerings and create new operating models in a world where sustainability is paramount, resiliency is crucial and the importance of sovereignty and trust is a factor of differentiation.

Two generations of innovators at Dassault Systèmes have revealed the power of virtual worlds to imagine and create disruptive innovations, and to empower businesses to realize their greatest ambitions. Our purpose to harmonize product, nature and life is deeply rooted in our heritage and drives our strategy. It's important to keep in mind that 3D technology was born for sustainability, since it was first used in the industry for virtual prototyping, for doing things right the first time while saving time, materials and energy. We enable companies to measure and optimize their eco-bill, to use virtual worlds to improve footprint–what we take from the planet-while unleashing the imagination and growing their handprint-what we give back to the planet and to society.

For 40 years, we have been a trusted partner, leveraging science, transforming the processes of creation and production with

a holistic approach to circularity that incorporates frugality and lifecycle into design. After 3D design, 3D digital mock-up and 3D product lifecycle management, we launched 3DEXPERIENCE in 2012 with the idea that the use (i.e. the experience) of the product has now more value than the product itself, with new categories of expectations from citizens, patients, learners and consumers. Today, our clients and partners have embraced the Experience Economy: they use our 3DEXPERIENCE platform to create virtual twin experiences that allow them to imagine new methods and test new products.

In 2020, we extended virtualization from things to life. Having started with virtual twins of things-planes, cars, factories, cities—we now extend this capability to living organisms including human beings. This also means that life sciences will be an important inspiration for sustainable innovation in the coming decades. Today, a complete metamorphosis—a radical shift in our perspective on the world—is indeed required. This can only be achieved by leveraging the virtual world to improve the real world.

Our foundation in science is truly a differentiator. Our science-based virtual twin experiences rely on a range of multiscale disciplines-biology, chemistry, materials science, mechanics and electromagnetism-



Our goal is to make the power of virtual twin experiences accessible to everyone on the planet."

allowing our AI engines to transform gigantic, unorganized data into structured knowledge and know-how. These virtual assets are becoming the enabler of new products and services to the end consumer, which is what customers are expecting: not just the virtualization of the product, but the virtualization of the product in the context of its usage. And our goal is to make the power of virtual twin experiences accessible to everyone on the planet.

We have laid a solid foundation to support our long-term strategy by establishing our next generation of leaders and evolving our governance. We measure the distance traveled during those four decades, developing Dassault Systèmes from a start-up to a global player, and transforming many industries, from Aerospace to the future of mobility and now Life Sciences. Our journey together has been an incredibly enjoyable time. This successful tandem we formed, as Chairman and CEO, will now continue with Pascal Daloz to develop Dassault Systèmes, helping our customers to create practical sustainable solutions in the Experience Economy. We have the right governance and team in place to enable Dassault Systèmes' growth well into the future.

STRATEGIC VISION CORPORATE REPORT 2022

Focused on our next horizon: 2040

Bernard Charlès Chairman & Chief Executive Officer Pascal Daloz Deputy CEO & Chief Operating Officer

We are now focused on our next horizon: 2040. As a leader in sustainable innovation, our objective is to continue to position our clients at the vanguard of progress, across Manufacturing Industries, Life Sciences & Healthcare and Infrastructure & Cities.

We have demonstrated the relevance of our strategy and the resilience of our business model against a challenging macroeconomic and geopolitical backdrop - Russian invasion of Ukraine, inflation, raw material and workforce shortages. Despite this overall context, Dassault Systèmes delivered good results in 2022. Total revenue increased 9% over the year in constant currencies, driven by a strong demand in all our geographies and a solid momentum in most of our product lines. Non-IFRS operating margin was 33.4% compared to 34.3% in 2021, reflecting the hiring increase in 2022, upon which we will capitalize in the future. Finally, non-IFRS diluted earnings per share (EPS) grew 19% to €1.13, as reported.

It's clear the strategic investments we made a decade ago-introducing our purpose, creating our **3D**EXPERIENCE platform and cloud infrastructure—are being validated and paying off for our clients. Our Industry Solutions Experiences and virtual twin expe-

riences have proved mission critical to adopt new business models, increase resiliency and agility, and deploy rapidly at scale.

With the successful diversification of our business, continued investments in Research & Development and in growing our teams, we have expanded our breadth and depth of opportunities. Today, addressing US\$45 billion of a potential US\$100 billion market, we have significant room to grow. Our strong customer adoption, across all three sectors of the economy, offers many proof points.

In Manufacturing Industries, the shift to sustainable experiences is impacting all subsectors from new mobility to clean energy, and we are leading this change, as we've done for half a century. Life Sciences & Healthcare is transforming rapidly to accelerate drug development, improve efficiency and scale precision medicine. With a trusted, scalable platform, only Dassault Systèmes is capable of connecting the dots across research, discovery, certification, manufacturing and commercialization. In Infrastructure & Cities sustainability issues intersect and amplify: we are inventing game-changing solutions to optimize the use of natural resources, reduce carbon emissions and improve quality of life for citizens.



Innovators have to think in terms of organic systems of systems that create, produce and play an experience in a circular economy. In 2022, we unveiled the **3D**EXPERIENCE IFWE Loop, Dassault Systèmes' unique ability to provide a holistic view and seamlessly link value creation with value experienced, design and usage, to cover the full experience lifecycle. This strategic paradigm shift allows us to expand value proposals as well as the audience. Reaching consumers, patients and citizens is the next frontier: we will connect our clients to their own customers, fostering the creation of a significant, digital heritage—a critical element of competitiveness.

We can make this a reality through our virtual twin experiences, which offer a unique combination of modeling, simulation and data science. We have introduced the Life Cycle Assessment solution on the **3D**EXPERIENCE platform for customers to establish sustainability requirements early on, and measure the impact of decisions before implementing them. This provides a valuable foundation to

World to extend and improve the real world, together we can drive meaningful progress towards a more sustainable future."

fully leverage the future of data science. As data collection and analysis accelerate, virtualization of society and the economy requires the highest levels of security, trust and services. For these reasons, we have elevated 3DS OUTSCALE, Dassault Systèmes' sovereign cloud infrastructure, to a brand. Our strategy and offering are unique in the industry. We are applying 40 years of expertise at an industrial level to deliver an end-to-end sovereign cloud offering that is able to protect to each customer's core business and enables them to create value from data at multiple levels.

As we look to our next horizon, 2040, we continue to invest strategically and to grow our market leadership and the many significant opportunities before us. By then, we are focused on executing against the strong business drivers we have in place, and for 2023 we are targeting non-IFRS revenue growth of 8% to 9% in constant currencies. Hence, with an objective for non-IFRS diluted EPS in the range €1.18 to €1.20, we are on a trajectory to reach our 2024 EPS target well in advance.

We thank our team for their passion and dedication to our success. We thank our clients for their continued trust and look forward to continuing our fruitful partnerships. It is their success which defines our success. By leveraging the virtual world to extend and improve the real world, together we can drive meaningful progress towards a more sustainable future.

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GOVERNANCE CORPORATE REPORT 2022

A team motivated by excellence



Bernard Charlès Chairman & Chief Executive Officer Elisa Prisner Vice-President, Corporate Strategy & Platform Transformation **Pascal Daloz**Deputy CEO &
Chief Operating Officer

Florence Hu-Aubigny Executive Vice-President, Research & Development Philippe Laufer Executive Vice-President, 3DS Global Brands Florence Verzelen Executive Vice-President, Industry, Marketing & Sustainability

Rouven Bergmann Executive Vice-President, Chief Financial Officer Olivier Ribet
Executive
Vice-President,
Europe,
Middle East,
Africa

Laurence Barthès Executive Vice-President, Chief People & Information Officer Samson Khaou Executive Vice-President, Asia-Pacific Victoire de Margerie Vice-President, Corporate Equity, Marketing & Communications

Erik Swedberg Executive Vice-President, Americas **Thibault de Tersant** Senior Executive Vice-President, General Secretary

STRATEGIC OPERATIONAL ELEMENTS CORPORATE REPORT 2022



RESEARCH & SCIENCES

Patrick Iohnson

At Dassault Systèmes, we believe that the best way to build a better future for all is through science. For this reason, science underlines all of our efforts to harmonize product, nature and life and to provide sustainable virtual twin experiences for businesses and people. Our passion for research draws on various scientific branches to create innovative and disruptive solutions for our customers. Combining art, integrated research and applied science, our worldwide network of scientific alliances allows us to imagine and try out new hypotheses.

STRATEGIC OPERATIONAL ELEMENTS. We roll out our strategy by calling on our Strategic Operational Elements: Geos, Brands, Industries and Sectors. Our 11 Geos are responsible for driving the development of our business and implementing our customer-centric engagement models. Our Brands create great user experiences, build vibrant user communities and develop the apps that power the **3D**EXPERIENCE platform. Our Industries develop Industry Solution Experiences, Processes and Roles that deliver specific value to companies and users based on what they value most. Industries are grouped into three sectors:



MANUFACTURING INDUSTRIES

Philippe Laufer

The Manufacturing Industries sector is tasked with inventing products and solutions for a more circular and sustainable economy.



LIFE SCIENCES & HEALTHCARE **Tarek Sherif**

The Life Sciences & Healthcare sector is undergoing a massive transformation by virtualizing its entire ecosystem – from research to production to clinical trials to patient experience.



INFRASTRUCTURE & CITIES

Florence Verzelen

The Infrastructure & Cities sector focuses on helping to create desirable and sustainable living environments to improve human experience.



3DEXCITE: Tom Acland 3DS OUTSCALE: Philippe Miltin 3DVIA: Vincent Picou BIOVIA: Jason Benedict CATIA: Olivier Sappin CENTRIC PLM: Chris Groves DELMIA: Guillaume Vendroux ENOVIA: Stéphane Declée GEOVIA: Mauro DelleMonache MEDIDATA: Pascal Daloz NETVIBES: Morgan Zimmermann SIMULIA: Philippe Laufer SOLIDWORKS: Manish Kumar



TRANSPORTATION & MOBILITY Laurence Montanari



& DEFENSE David Ziegler



INDUSTRIAL & OFFSHORE **EOUIPMENT** François-Xavier Philippe Bartissol Dumez



HIGH-TECH Stéphane Sireau



& LIFESTYLE Philippe Loeb



CONSUMER PACKAGED GOODS -RETAIL Philippe Loeb



LIFE SCIENCES & HEALTHCARE Claire Biot



INFRASTRUCTURE, **ENERGY** & MATERIALS Corinne Bulota



ARCHITECTURE, ENGINEERING & CONSTRUCTION



& PUBLIC SERVICES Jacques Beltran



BUSINESS SERVICES Taherah Kuhl

Central Europe Dominic Kurtaz

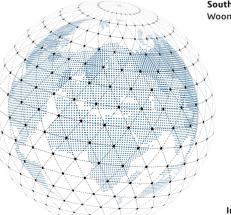
Northern Europe John Kitchingman Western Europe

Southern Europe Umberto Arcangeli

Philippe Besse

North America Erik Swedbera

Latin America Alejandro Chocolat



13

South Korea Woonsung Jung

Philippe Godbout

China Ying Zhang

Southeast Asia - Pacific Josephine Ong

India Deepak NG

FINANCIAL PERFORMANCE 2022 CORPORATE REPORT 2022

2022, a year of investment

REVENUE

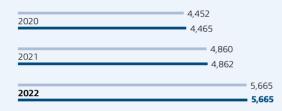
GROWTH(1)

33.4%

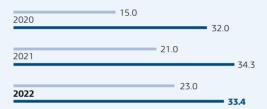
+19% EPS

1,525 M€ CASH PROVIDED BY OPERATIONS

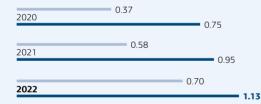
CONTINUOUS REVENUE GROWTH +9% (M€)(1)



RESILIENT OPERATING MARGIN (%)



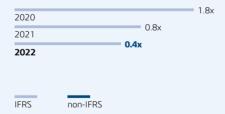
DILUTED NON-IFRS EPS +19% (€)(2)



NET CASH FROM OPERATIONS (M€)



ADJUSTED NET DEBT / EBITDAO RATIO BELOW 1X(3)

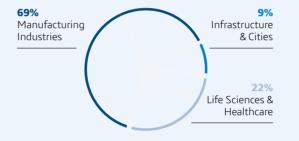


(1) Non-IFRS, revenue growth figures in constant currency. (2) Non-IFRS, EPS reported growth.

(3) The Adjusted Net Debt corresponds to the net financial debt position (borrowings net of cash, cash equivalent and short-term investments) adjusted of IFRS 16 lease liabilities. The IFRS EBITDAO corresponds to the IFRS operating income adjusted of amortization, depreciation and impairment expense of intangible and tangible assets and of non-cash share-based payment expense (excluding related social charges).

All financial information is reported according to IFRS. In addition, the Company has provided supplemental non-IFRS financial information, which excludes the effect of adjusting the carrying value of acquired companies' deferred revenue, share-based compensation expense and related social charges, amortization of acquired intangible assets and of tangible assets revaluation, lease incentives of acquired companies, other operating income and expenses, net, including the payment of goodwill and acquired intangible assets, certain one-time financial revenue items and the income tax effects of these non-IFRS adjustments.

3 STRATEGIC **SECTORS**



CONTINUOUS MOMENTUM IN AMERICAS, RESILIENCE IN EUROPE **AND EXPANSION IN ASIA**



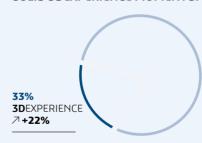
PREPONDERANCE OF RECURRING SOFTWARE REVENUE



LEADING PRODUCT LINES



SOLID 3DEXPERIENCE MOMENTUM



Our product line financial reporting includes all brands: 3DEXCITE, 3DS OUTSCALE, 3DVIA, BIOVIA, CATIA, CENTRIC PLM, DELMIA, ENOVIA, GEOVIA, MEDIDATA, NETVIBES, SIMULIA and SOLIDWORKS.

STRONG CLOUD GROWTH



To measure the progressive penetration of **3D**EXPERIENCE software, we use the following ratios: a) for licenses revenue, we calculate the percentage contribution by comparing total **3D**EXPERIENCE licenses revenue to licenses revenue for all product lines except SOLIDWORKS and acquisitions ("related licenses revenue"); and, b) for software revenue, the Group calculates the percentage contribution by comparing total **3D**EXPERIENCE software revenue to software revenue for all product lines except SOLIDWORKS and acquisitions ("related software revenue").

FINANCIAL PERFORMANCE 2022 CORPORATE REPORT 2022

Shareholders' Information

2018-2024 NON IFRS EPS OBJECTIVE

2018	0.62 €	1 200
2024		1.20€

2018 figures have been restated in order to reflect the five-for-one share split of Dassault Systèmes' shares on July 7, 2021



We achieved a strong fourth quarter, wrapping up a good 2022. We reported a non-IFRS operating margin of 33.4% and non-IFRS diluted earnings per share (EPS) of €1.13, up 19% compared to 2021, demonstrating the resiliency of our model. We delivered on profitability while investing to support our long-term growth (i.e. hiring people: +10% in 2022); we will capitalize on these investments in the coming years.

Turning to balance sheet items, we have reached our debt reduction objective ahead of schedule. This leaves us significant room to seize growth opportunities that arise on the market.

As we continue to execute against the strong business drivers we have in place, for 2023 we are targeting diluted EPS in the range €1.18 to €1.20. This objective allows us to be on track to reach our 2024 EPS objective well in advance."

Rouven Bergmann,

Executive Vice-President, Chief Financial Officer

SHAREHOLDERS' COMPOSITION (CONTROLLED CAPITAL)



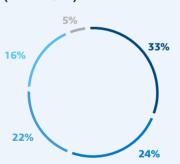
52% Free float

40% Groupe Industriel Marcel Dassault6% Charles Edelstenne

6% Charles Edelsten1.8% Bernard Charlès

0.2% Pascal Daloz

SHAREHOLDERS' COMPOSITION (FREE FLOAT)



33% North America

24% France

16

22% UK & Ireland

16% Continental Europe (excluding France)

Rest of world

Dassault Systèmes stock data Listed on Euronext Paris and traded on the American OTC market Member of CAC 40 Share price 12/31/2022 33.49€ / \$35.84 Market capitalization €44.6 bn / \$47.8 bn Comparison of the 1-year stock performance • Dassault Systèmes -36% • CAC 40 -9.5% • Nasdag -33% STEADY NON-IFRS EPS GROWTH (€)

Figures have been restated in order to reflect the five-for-one share split of Dassault Systèmes' shares on July 7, 2021

2010

2011

2012

2013

KEY 2023/2024 EVENTS

26 April Release of first quarter earnings **24 May** Annual shareholders' meeting

9 June Capital Markets Day

25 July Release of second quarter earnings

25 October Release of third quarter earnings

1 February Release of fourth quarter earnings

SHAREHOLDERS' CONTACT

2015

2017

Tel.: +33 (0)1 61 62 69 24 E-mail: investors@3ds.com https://investor.3ds.com/

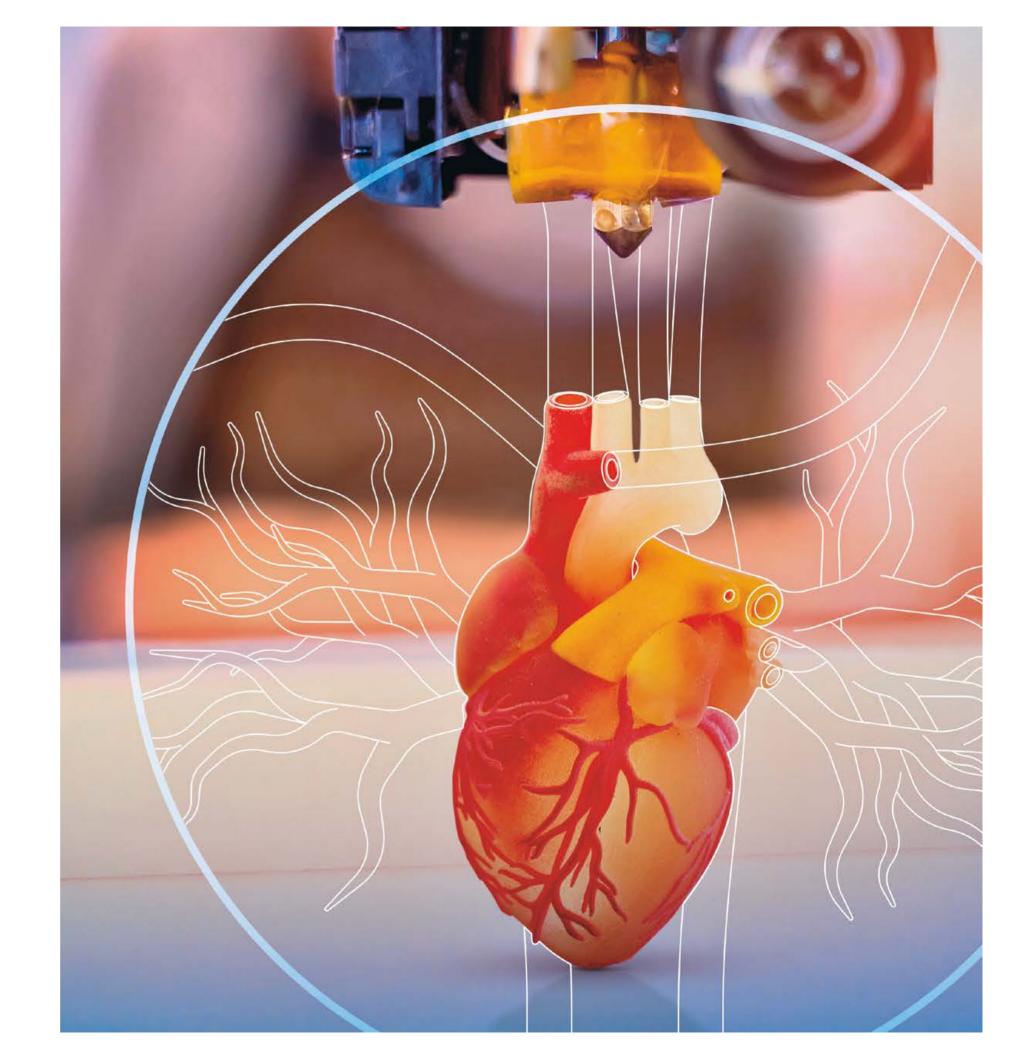
UNTIL NOW medical advances resulted from trial and error

FROM NOW ON

virtual twins are moving patient experience and safety to the forefront

Breakthrough approaches to improve patient experiences.
Rapidly accelerated drug development through decentralized and more diverse clinical trials. Extensive research for deeper understanding of how medical devices work within the human body. These are among the ways our trusted, scalable

3DEXPERIENCE platform is helping to connect players across research, discovery, manufacturing and commercialization to usher in an era of safer, precision medicine.



LIFE SCIENCES & HEALTHCARE CORPORATE REPORT 2022

Increasing the safety, efficacy and relevance of clinical studies in the United States

Advancing safe and efficient scientific solutions is the foundation of MEDIDATA. Clinical trials in the US are increasingly adding diversity across the drug development process to benefit all patients.

20

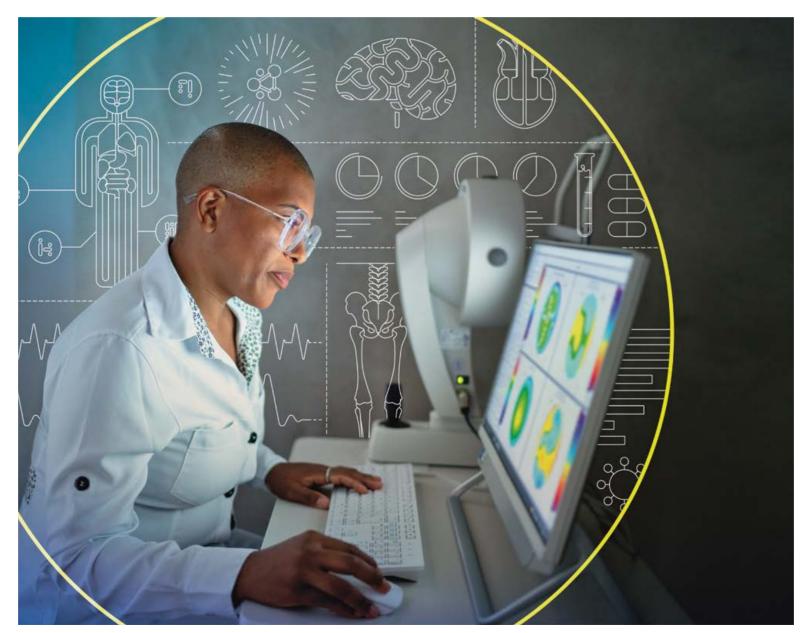
Historically, clinical trials have recruited disproportionately large percentages of white participants, raising concerns about the generalizability of trial results to underrepresented communities. This particularly impacts the Black population.

According to a study by the US Centers for Disease Control and Prevention, more than half the COVID-19 cases are affecting people of color – but they comprise only about 20% of clinical trial volunteers. Unbalanced studies – those that don't reflect the actual demographics – carry a number of medical and safety risks.

MEDIDATA's research on clinical trial site diversity, based on a sample from more than 30,000 clinical trials across indications and more than 9 million patients, is available in "The State of Black Participation in Clinical Trials."

The paper's findings indicate that Black Americans continue to be underrepresented in oncology clinical trials, accounting for only 8.5% of participants enrolled in interventional trials from 2010-2021, even though 14.6% of Americans are Black.

In an even more stark example, in the past decade 70% of sites did not enroll a single Black participant in Alzheimer's and lung cancer trials, two diseases that disproportionately affect Black Americans.





Powering greater diversity is critical for our industry and a priority for **MEDIDATA**. It is now possible to identify high-performing sites known to recruit diverse patients. This supports more representative outcomes, and promotes much needed equity within clinical research."

Fareed Melhem, Senior Vice-President, MEDIDATA AI

Bringing more diversity to clinical trials

Addressing the critical needs of better science, more representative outcomes and increased health equity, **MEDIDATA** launched the **Intelligent Trials Diversity Module**.

This initiative provides site-level participant demographic data including sex, age and ethnicity.

This will help sponsors and clinical research organizations (CROs) benchmark the diversity of their trials and identify sites that are more successful at enrolling diverse patients. It brings diversity into the beginning of the feasibility process, all while accelerating trials.

MEDIDATA's new offering supports the US FDA draft guidance to industry, a strong call to action to enroll more participants from underrepresented ethnic populations into clinical trials.

Legislation like the Diverse and Equitable Participation in Clinical Trials (DEPICT) Act, which would mandate the inclusion of diverse populations, also reflects the importance for the industry to address this critical issue.

LIFE SCIENCES & HEALTHCARE CORPORATE REPORT 2022

Making patient centricity the key to recovery

As treatment options become more sophisticated, medical professionals are looking at approaches to reduce stress for the patients undergoing these procedures. Our virtual twin experiences can help, by guiding a person through their treatment in advance.

A cancer patient lies quietly on the clinical bed at the **H. Hartmann Institute as the Accuray Cyberknife®** robot moves and rotates, its arm beaming high doses of radiation at their tumor. For some, this can be a time of high anxiety. But thanks to virtual twin technology, a patient can now better prepare for this session, by experiencing a virtual mockup of the treatment space and the procedure in advance.

Envisioning the procedure

Along with H. Hartmann Institute and the Rafaël Institute, Dassault Systèmes developed this empowering procedure through our **3D**EXPERIENCE Lab. The world's first radiotherapy room simulated entirely in 3D, **VORTHEX** – Virtual Oncology Radio Therapy Hartmann Experience – is a completely new approach to radiotherapy. Digital continuity created by the **3D**EXPERIENCE platform ensures an accurate virtual twin of both the robot and the treatment area, allowing patients to view all the technical and protocol components of their individual treatment in 3D.

They're able to project themselves into the actual procedure, going through each step from entering the radiotherapy room, getting into position on the table and receiving treatment through the **Cyberknife**, a high-energy X-ray machine that precisely delivers radiation beams to destroy tumor cells and stop tumor growth while avoiding damage to healthy tissue.



After the virtual experience and before the treatment, the patient ask their care team specific questions to gain further understanding and reassurance.

VORTHEx will change how radiotherapy works, helping patients to comprehend their treatment better and, by reducing anxiety, greatly increase the chances of a successful recovery. Next up: clinical tests measuring the effects and performance of this simulation in the patient journey that will be carried out on our MEDIDATA clinical trial platform.

18
MILLION NEW
CASES OF CANCER
WORLDWIDE
EVERY YEAR

50%

OF CANCER PATIENTS
WILL RECEIVE
RADIATION THERAPY

*SOURCE: WWW.CANCER.GOV

LIFE SCIENCES & HEALTHCARE CORPORATE REPORT 2022

Enhancing our understanding of lung function

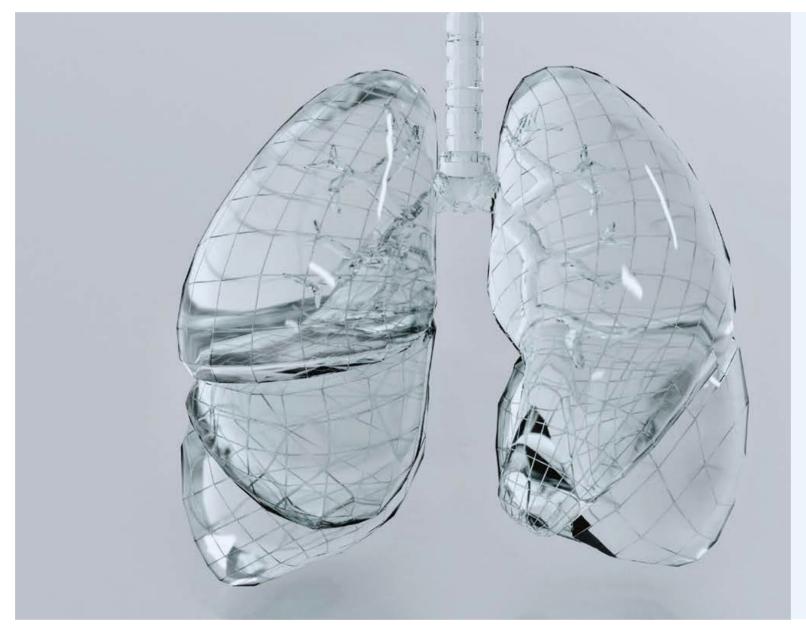
Lung disease is one of the leading causes of morbidity and mortality worldwide – and was even before the COVID-19 pandemic. A new research project funded by La Fondation Dassault Systèmes in the US offers hope for inaugurating novel avenues for pulmonary clinical therapies and medical devices.

24

Every minute, a person dies from lung disease. Yet, pulmonary research lags. Thus far, researchers only have access to elementary simulations of the lungs, which limits our understanding of how the organ works and how the onset of diseases can alter pulmonary tissue integrity. Questions around the mechanics of healthy lungs and the level of stresses and strains they can handle continue to challenge medical professionals. Finding answers requires the ability to develop and study a functional model of a breathing lung that portrays accurate global and local behaviors of this critical organ.

La Fondation Dassault Systèmes is funding scientific research aimed at significantly advancing pulmonary knowledge and paving the way for new therapies. A research team led by Professor Mona Eskandari, Ph.D. at The University of California, **Riverside** is devising new techniques in experimental pulmonary biomechanics to investigate the lung's fundamental structural mechanics and to, in turn, construct 3D computational models and simulations to provide predictive insights into pulmonary physiology. Their research will provide the first 3D breathing model of the lung, accurately representing the cyclic deformations of a human breath. Ultimately, results will serve as a groundbreaking scientific platform for cough simulations, ventilation efficacy, lobectomies and disease states.





WE HAVE A UNIQUE, CROSS-DOMAIN FOOTPRINT IN LIFE SCIENCES & HEALTHCARE. WE SUPPORT:

 $8,\!000+$

 $30,\!000 + \\$

50%+
OF DRUGS & MEDICAL
DEVICES DESIGNED WITH
OUR SOLUTIONS

 $\sim 40\%$ of New Clinical trials supported by our solutions

UNTIL NOW

decisions about cities and infrastructure were made by officials alone

FROM NOW ON

public servants can rely on a more collaborative approach to urban planning

Virtual twin experiences empower stakeholders shaping the world's cities – from construction firms to urban leaders – to explore unlimited scenarios to optimize human experience and protect our planet. And because the twins are built on scientific principals and data, the most sustainable actions can be taken in service of and in consultation with everyday citizens: from optimizing the layout of a single building to determining the best routes for public transportation.



INFRASTRUCTURE & CITIES CORPORATE REPORT 2022

Building smart, sustainable cities with virtual twins

From protecting a heritage site to rebuilding a war-torn region, planners are relying on the rich data and powerful visualizations of virtual twins to guide their decisions.



The Infrastructure & Cities sector is now at a decisive turning point. I strongly believe that virtual twin experiences are key to support energy transition and decarbonization, overcome construction challenges, manage logistics disruptions and make cities resilient."

Florence Verzelen, Executive Vice-President, Industry, Marketing & Sustainability

Adapting infrastructure for climate change

How can you prepare an ancient city for future climate issues while preserving a historic world heritage site? That was the dilemma facing local government leaders in Egypt as they recognized the urgent need to address the dual problems of air pollution and heat islands in millennial-old Cairo. As part of a joint initiative with **SUEZ** - **ARIA, EGIS and ATOS**, our **3D**EXPERIENCE platform will be used to create a virtual twin of the city's downtown that acts as an observatory of local climate change.

Because it's rooted in science, the dynamic, continuously evolving virtual twin will provide precise data down to street level. This rich information will empower officials to create safe and enjoyable public spaces, with special attention to neighborhoods around schools and hospitals. Detecting heat islands, for example, can help determine the optimal urban environment for green spaces – as specific as recommending the ideal species of trees to plant.

In the coming years, public servants around the world will face increasing pressure to fight greenhouse gas emissions; cities represent more than two-thirds of the global impact despite occupying just 3% of land area. Through projects like Cairo's, however, virtual twin technology can reveal how to adapt existing infrastructure to address climate change challenges, while still taking into account the need to preserve global heritage.



Rebuilding a war-torn country

Officials in Ukraine face a far different urban challenge: rebuilding areas ravaged by war to be even more inclusive than they were before. The Ukraine conflict has inflicted immense devastation to the country's population and territories. But Dassault Systèmes is dedicated to helping Ukraine rebuild and be more sustainable.

Along with **Egis and B4**, Dassault Systèmes is aiding Ukranian authorities to prepare for the post-war era: imagining the future for the city of Chernihiv, including rebuilding its infrastructure and anticipating emerging climate and humanitarian issues.

The two-step process is kicking off by assessing damage using satellite data analyzed with AI. This information will be added to the **3D**EXPERIENCE platform to enrich the virtual twin of Chernihiv. This data will be assessed and tested to optimize reconstruction – everything from design of new buildings to the organization of city transportation.

The **3D**EXPERIENCE platform allows all stakeholders – including citizens – to collaboratively consider and test everything from flooding risks to accessibility, transportation, land use, position of key urban assets, and existing water, heat, sewage and other infrastructure networks. The goal is to build back better for all citizens of Ukraine, giving them safe, green and hospitable public spaces to enjoy within smart, sustainable cities.

INFRASTRUCTURE & CITIES CORPORATE REPORT 2022

Virtual twins empower decision-making

Ensuring that construction and development projects are sustainable is one of the biggest challenges facing infrastructure planners. From generating power to protecting lakes, virtual twins inform responsible choices.

Developing a first-of-its-kind fusion energy plant

High hopes are directed at fusion as a promising long-term and sustainable energy supply. The UK Atomic Energy Authority (UKAEA) aims to deliver a prototype fusion energy plant and make it commercially viable by 2040. Over the next two years, the Spherical Tokamak for Energy Production project (STEP) will involve dozens of supply chain partners to meet the concept design requirements. Our **3D**EXPERIENCE platform will help manage all plant and reactor assets during the concept design phase. Ultimately, STEP will be a major operational power station – the first ever Spherical Tokamak plant of this scale delivering energy to the grid. The platform will be able to grow with the program as it moves through detailed design, construction and ultimately into plant operations. The hope is for STEP to drive economic growth and high-tech jobs in the UK, helping to develop skilled people for the industry to thrive.

Paneling a transportation hub

Dutch façade designer and manufacturer **Aldowa** needed to engineer thousands of wall panels for the new Saint-Denis Pleyel metro station. To meet aggressive deadlines on this complex project, they turned to the **3D**EXPERIENCE platform on cloud and our outcome-based engagement team. Together, we created a new feature in CATIA that



allows Aldowa engineers to choose the walls they want to generate, define the type of wall, calculate the geometries and automatically apply the associated structural elements according to the panel's location within the station. The result: an automated design process on more than 5,000 façade panels covering 7,700 square meters of space.

Studying climate change on lakes

The great lakes of Africa are particularly sensitive to climate change. Understanding how these bodies of water function is key to protecting their future. But accurate measurements and other data are often sparse. La Fondation Dassault Systèmes in Europe is supporting the Virtual Lakes project led by the French National Center for Scientific Research (CNRS). Starting with Lake Turkana, the project team is developing a 3D simulation model that is specific to lakes to simulate sedimentation hydrodynamics and conditions such as rapidly varying water levels, shoreline migration, deltas and water quality then present their research in realistic 3D visualizations. The first goal is to use these learnings to better preserve the future of lakes in arid and semi-arid zones around the world, and then adapt them to better anticipate the effects of climate change on lakes and their environments in terms of biodiversity, economics and ecology.



INFRASTRUCTURE & CITIES CORPORATE REPORT 2022

Building Tomorrow

How can we reimagine a building of yesterday with technologies of today?

In the context of climate change, resource depletion and the rapid growth of cities, it's clear that Infrastructure & Cities should be built to last for decades, if not centuries. Digital solutions and technical capabilities hold tremendous potential to make development more sustainable and mitigate impacts inherent in building physical structures. And with the urgent need to decarbonize our planet, we at Dassault Systèmes know the time to act is now.

To demonstrate the breadth of positive impact that can be gained by embracing sustainable development measures, we gathered a global team of experts to reimagine how one of the world's most famous landmarks could be created today. And so we asked: how could the Eiffel Tower be built now rather than how it was erected in 1887?

Through the "Building Tomorrow" project, the group reimagined every aspect in the building process to identify opportunities for improvement, from cleaner energy consumption to circular economy practices. They considered how public authorities, engineers, architects, logistics experts and builders could approach challenges across the value chain using virtual twin technology. They ultimately discovered and demonstrated how innovative ways of thinking and working can guide the way forward towards a more sustainable tomorrow.













DISCOVER OUR FIVE-PART BUILDING TOMORROW VIDEO SERIES

Episode 1

Leave Nothing to Chance - The virtual twin not only allows public authorities to collaborate with their wide ecosystems, but also provides a digital environment to test, assess, and make decisions at every step of the process.

Episode 2

Made of Steel - Choosing the right material is critical when it comes to limiting the carbon footprint of a building. But beyond the material itself, it is its entire life cycle that xperts must analyze and optimize.

Episode 3

Earlier Logistics are Efficient Logistics -Thinking about logistics from the outset offers greater flexibility to make decisions to significantly reduce the carbon footprint of a project.

Episode 4

Objective: Self-Sufficiency - Creating a virtual twin of the tower meant its operations management could be conceptualized with carbon neutrality by design.

Episode 5

A Brave New World of Building - Integration-Ready Construction Modules will transform the value chain by accelerating the design, delivery, and assembly of truly unique and sustainable buildings.



UNTIL NOW

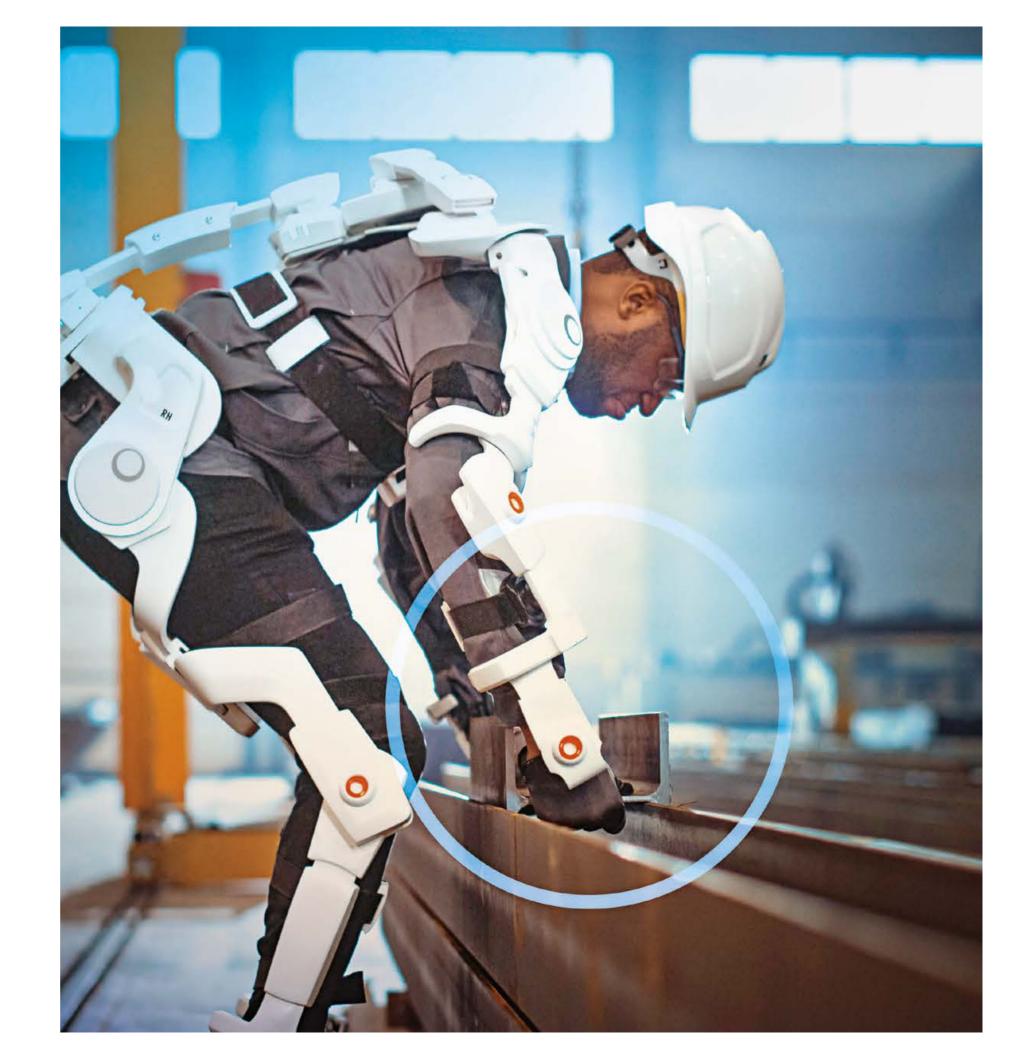
manufacturing companies were primarily focused on putting out the best products to market

FROM NOW ON

companies are expanding their concern to the health and well-being of people and the planet

Manufacturing Industries are prioritizing sustainable experiences over fast products. This is impacting all sectors of manufacturing, sparking a race for everything from greener forms of mobility to more efficient ways to move goods.

But it's also requiring the development of and training on entirely new skills for both the existing workforce and recent university graduates.



MANUFACTURING INDUSTRIES CORPORATE REPORT 2022

Identifying and preventing discomfort on production lines

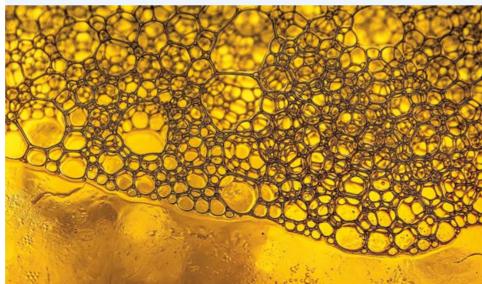
Employee health and safety is a priority for leading international cosmetic brand L'OCCITANE EN PROVENCE. The company is deploying Dassault Systèmes virtual twins to enhance worker safety.

Preventing accidents and keeping workers safe are top priorities for Laboratoires M&L, **L'OCCITANE EN PROVENCE**'s production site in the south of France (Lagorce). They reached out to us for a project to simulate their workstations to prevent the occurrence of musculoskeletal disorders among its staff. But our partnership quickly evolved into exploring how virtual twins can enhance their workers' overall well-being and improve operational efficiencies.

This **L'OCCITANE EN PROVENCE**'s production site decided to create a virtual twin of its production lines through the **3D**EXPERIENCE platform on cloud in order to evaluate work areas, especially ergonomic postures at workstations and on packaging lines. "We started from simple observations: the increase in illnesses and reported issues related to discomfort on production lines," said Maxime Plazolles, innovation engineering project manager for **L'OCCITANE EN PROVENCE** production sites. "We then screened a wide range of postures according to population percentiles. The virtual twin allowed us to evaluate situations that cannot be observed in everyday life."

The project went ever further, establishing a virtual twin of the full shop floor to run airflow and pathogenic propagation scenario simulations to enhance employees' health and well-being, as well as to maintain high productivity levels on the production line. The team also simulated production scenarios to determine which areas of the factory heated up and how this affected the comfort of the operators during hot days.





TOP 5

AREAS OF OPPORTUNITY FOR ACCELERATING THE MANUFACTURING SECTOR'S TRANSFORMATION:



Design for sustainability



Supply Chain Management



Additive manufacturing



Data science



Model-based systems engineering

PIVOTAL SKILLS FOR SUSTAINABLE INNOVATION IN MANUFACTURING

Closing the skills gap is one of today's biggest challenges facing manufacturing industries. Jobs are being transformed, and new jobs requiring new skills are emerging for both graduates and the existing workforce.

For over 40 years, we've been a catalyst for connecting and strengthening the efforts of industry and academia to collaboratively nurture continuous learning that helps deliver innovations that improve our quality of life. In 2022, **3D**EXPERIENCE Edu evolved our approach by commissioning a social listening study to gain insights into how pivotal manufacturing skills are being discussed online.

We analyzed 30 disciplines from the skills set that's been identified to accelerate the manufacturing sector's digital transformation and, specifically, to seize opportunities to empower our ecosystem to reduce the skills gap and create more sustainable experiences.

The study revealed opportunities to increase conversations and awareness of such critical discipline for the future of industry such as design for sustainability, supply chain management, additive manufacturing, data science and model-based systems engineering.

"The companies who will be the most competitive in the future are not the ones that will automate the most of their processes and activities, but the ones that will empower their workforce with knowledge and know-how," said Valérie Ferret, Vice-President, 3DEXPERIENCE Edu.

MANUFACTURING INDUSTRIES CORPORATE REPORT 2022

Manufacturing's green evolution

A reshaping of the manufacturing industry's products and processes is essential to helping the world meet sustainability goals. Virtual twin experiences play a critical role in this transformation.



If By using the **3D**EXPERIENCE platform to efficiently develop our aircraft from concept to certification, we show potential investors, partners, employees, suppliers, customers and regulators that viable hydrogen-based solutions can be developed with the same software suite that has made the most technologically advanced commercial aircraft possible."

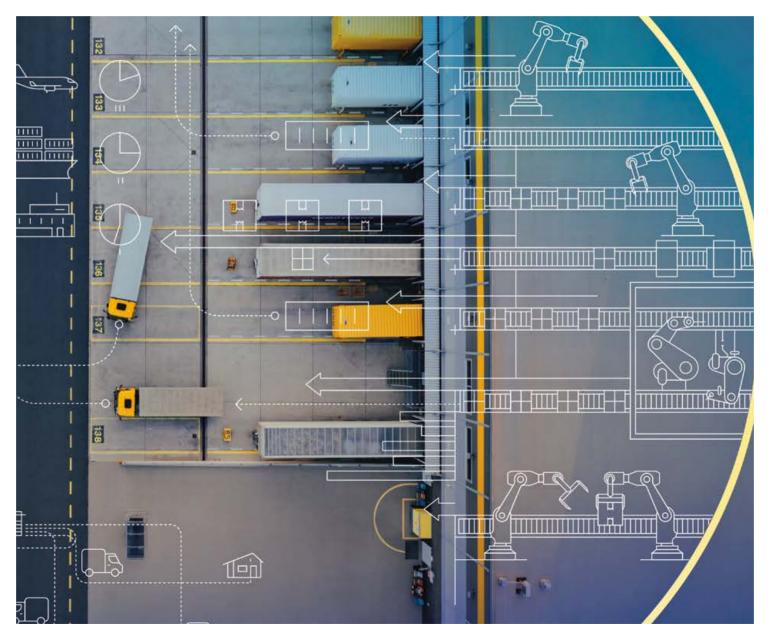
Olivier Savin, CEO and Founder, Blue Spirit Aero

New sustainable solutions in the skies

Achieving clean skies is a big part of meeting global sustainability goals, and accessible clean aviation is becoming closer thanks to our "Reinvent the Sky" industry solution experience and **Blue Spirit Aero**, a French startup leveraging hydrogen fuel cell technology. The **3D**EXPERIENCE platform on cloud is helping to develop its light aircraft, Dragonfly, by improving collaboration so **BSA**'s teams can focus on customer experience and creating a hydrogen economy. They've completed the detailed 3D design of Dragonfly's shapes, and tested and validated its performance in terms of aerodynamics, structure and energy. The goal is certification and entry into service in 2026.

Smart, digital shipyards

With a booming demand for liquefied natural gas carriers, Korea's **Samsung Heavy Industries** wants to improve its capacity to produce and deliver these vessels. This global leader in the high-tech shipbuilding sector has a vision of a "smart yard" to establish a fully digital shipyard. This would optimize operations' scheduling and execution, and streamline and automate the flow of information to accelerate production and assembly. Connecting the virtual twins of ships and the virtual twin of the shipyard on the **3D**EXPERIENCE platform can allow **Samsung Heavy Industries** to design, build and maintain more sophisticated, safe and sustainable vessels.



Accelerating EV development

Mobility In Harmony (MIH) is creating an open Electric Vehicle ecosystem to transform mobility. With more than 2,600 members in 69 regions, MIH's ambition is to become a platform to connect the mobility players of tomorrow for a sustainable future. As a member of MIH's technical committee, Dassault Systèmes is actively contributing to build the collaboration backbone to accelerate the innovation needed to realize key technologies and reshape user experience for the next generation of electric vehicles, autonomous driving and mobility services.

Automated robotic security

Pennsulvania, US-based **Asulon**'s uncrewed aerial sustem (UAS) and uncrewed ground vehicle (UGV), DroneSentry and DroneDog, carry out automated observe-and-report patrols that alert key stakeholders about potential security breaches and issues in real-time. These systems are cost-effectively protecting people and assets around-the-clock. As demand for their comprehensive security services grows, Asylon needed a platform to handle all product development and streamline compliance with Federal Aviation Administration (FAA) regulations. That's where the 3DEXPERIENCE platform came in, bringing **Asylon**'s teams together in a single environment and empowering employees to push the boundaries of aerospace and automation. In addition to improving design, the cloud-based platform securely gives everyone all the information needed to quickly identify any issues prior to build, removing guesswork and speeding up deployment.

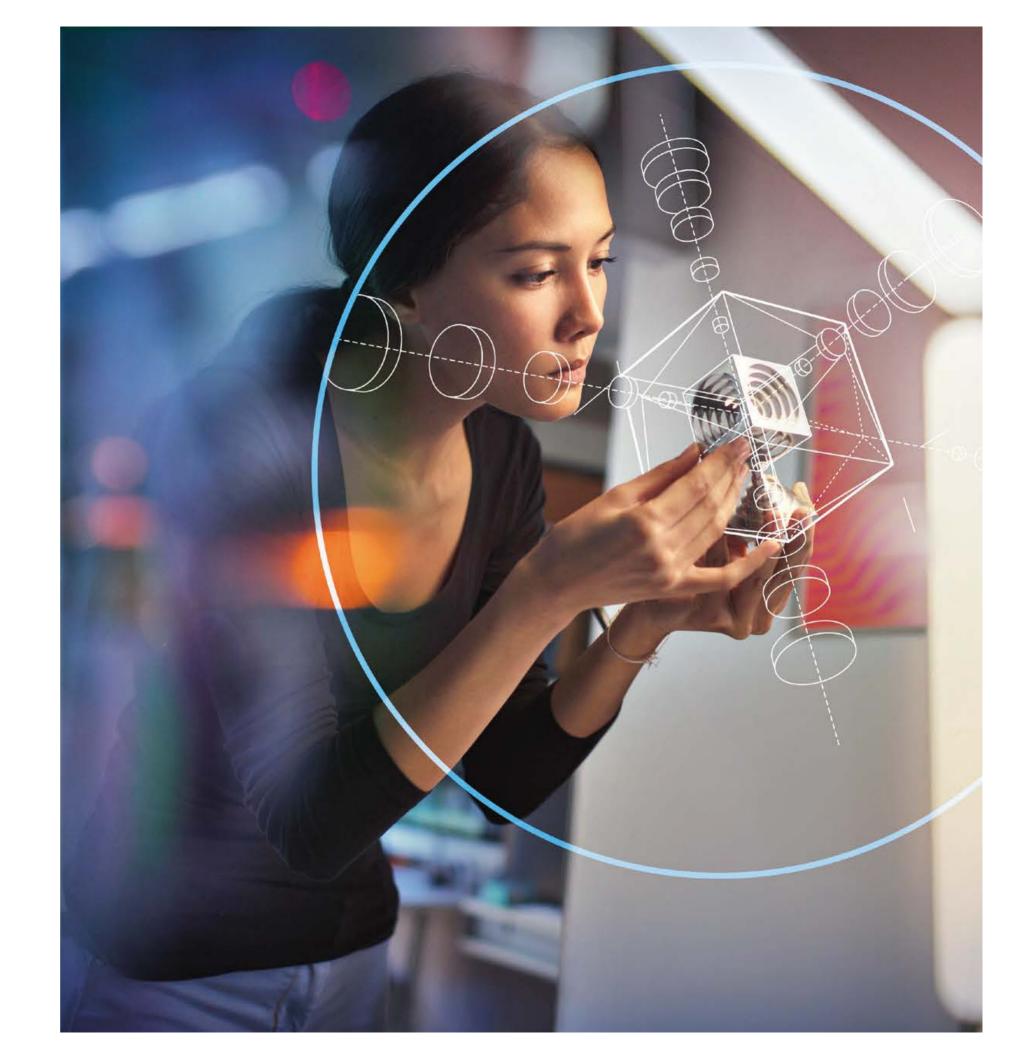
UNTIL NOW

companies and entrepreneurs were competing to bring ideas to market

FROM NOW ON

visionaries can innovate in a collaborative space with a shared mission to change the world

For over four decades, Dassault Systèmes has forged a strong and vibrant ecosystem of commercial and software development partners, technology and education institutes, research bodies and systems integrators. Since 2015, we've also supported a wide ecosystem of startups through our **3D**EXPERIENCE Lab, an open innovation hub focused on accelerating disruptive, sustainable innovation.



3DEXPERIENCE LAB CORPORATE REPORT 2022

Supporting startups' world-changing ideas

As Germany's hotspot for tech startups, Munich was the perfect choice for our fourth **3D**EXPERIENCE Lab, extending our reach to even more entrepreneurs striving to improve society.

Fabien Bartel likes to describe himself, jokingly, as a barista. As director of Dassault Systèmes's newest **3D**EXPERIENCE Lab in Munich, he says discussions with visitors around the espresso machine are often the most enriching part of his job. Launched in September, the Munich lab fosters what he calls a "community of innovation" involving dialogue with promising entrepreneurs. "Developing new ideas, exploring new ways of working, this is what I want to have here. We are building our reputation as innovators and thought leaders," Bartel said.

Our location in Munich is our fourth **3D**EXPERIENCE Lab, joining facilities in Paris, Boston and Pune. All locations have the mission to support disruptive innovation with positive impact on the world and to bring smart ideas to life. What makes our Munich site unique is that it's co-located with our **3D**EXCITE brand that's focused on marketing and communications. This encourages inspiring conversations about how to apply new 3D approaches to share nascent ideas with the world.

Located within the city's vivid and growing innovation ecosystem, Munich was selected for its significant potential to help develop the work-

force of the future from the citu's huge talent pool – particularly in high-tech. Its highly developed startup industry and infrastructure also made it an obvious choice. The Lab is not only for startups but for the broader innovation ecosystem of the region to explore new ways of working.

Since its inception in 2015, our 3DEXPERIENCE Lab program has supported hundreds of innovators to develop ideas that have a sustainable and positive impact on the world. Interested startups go through a rigorous application process that concludes with a pitch to Dassault Systèmes executives. Once accepted into the multi-year program, participants have access to large open workspaces that feature a FabLab equipped with 3D printers, laser cutters and other tools. We encourage any of our employees to devote up to 10% of their time to mentoring program participants - and also use the FabLab to explore personal projects!



Take a look inside the 3DEXPERIENCE Lab



The **3D**EXPERIENCE Lab shows the power of collective intelligence, open innovation and cloud platforms in enabling disruptive innovations that align with the United Nations' sustainable development goals."

Frédéric Vacher, Head of 3DEXPERIENCE Lab, Dassault Systèmes



unruptured aneurusm it's critical to treat it quickly. French-American digital health company **Biomodex** joined the **3D**EXPERIENCE Lab to help develop 3D-printed anatomical twins of patients' aneurysms. Biomodex can produce a physical model of individual patients' brains in just five days, which allows a doctor to rehearse the specific procedure before treatment.

.lumen: There are just 28,000 guide dogs for the 40 million blind individuals in the world. The **3D**EXPERIENCE Lab is helping .lumen develop a solution that mimics the benefits of a guide dog while eliminating drawbacks that make animals a non-scalable option. Using autonomous driving and robotics technologies scaled down to a wearable product, .lumen glasses help a visually impaired user locate and navigate towards objects and live a more independent life.

Futura Gaïa uses living soil (geopony) to produce fruits, vegetables or flowers, 365 days per year in a fully controlled environment without using any pesticides, and with severely reduced water consumption. The **3D**EXPERIENCE Lab is helping the project team use the **3D**EXPERIENCE platform to build the diverse set of technical and management skills required to move from concept to pilot farm to a successful corporation.



UNTIL NOW

we couldn't see the impacts of our actions until the damage was done

FROM NOW ON

we can protect people and our planet by taking more responsible actions

Everything we do is in service of having a positive impact on our world. Dassault Sytemes is firmly committed to doing our part to reach climate neutrality by 2040, and this guides how we operate as a company and what we offer our customers. We know that being a leader in sustainable technology means being a ustainable technology company ourselves. It's not just about what we sell. It's also about who we are and how we support our most valuable resource: our employees.



CORPORATE SOCIAL RESPONSIBILITY CORPORATE REPORT 2022

Educating and engaging our people with Climate Fresk

In 2022, our "LEAP for Sustainability" internal initiative allowed our employees to deeply examine the causes and effects of climate change, and reflect on how their personal and professional activities impact our planet's health.

The best way to find the most innovative, appropriate and actionable solutions is by understanding the problem. That's the idea behind Climate Fresk, which since 2018 has run educational workshops to help people link causes and effects of climate change so they can understand the systemic nature of those challenges.

As part of Dassault Systèmes' commitment to sustainability, we provide our employees with continuous opportunities to learn about climate change. We believe that mobilizing our collective intelligence creates insights that benefit our company, our customers and our planet.

So, in 2022 our **LEAP for SUSTAINABILITY@3DS** internal innovation program gave us the opportunity to take part in Climate Fresk's interactive, engaging workshops.

Colleagues from 45 company sites participated in these dynamic, collaborative sessions to learn the fundamentals of climate change, leveraging data from the same scientific reference base that guides the choices of political and economic decision-makers around the world.

These workshops supplement our internal online LEAP community, where any employee can propose a solution to address climate change and improve sustainable practices within our company.





// You can have an idea of how climate change affects people on paper or you can read the science behind it. But when it's all laid out in front of you in pictures and in visuals, it drives home the message in a completely different way."





of the Climate participants

ESG MANAGEMENT

WE NOT ONLY PROVIDE CUSTOMERS WITH SUSTAINABLE TECHNOLOGY SOLUTIONS – WE STRIVE TO BE A SUSTAINABLE TECHNOLOGY COMPANY OURSELVES. WE'RE COMMITTED TO IMPROVING THE IMPACT OF OUR ENVIRONMENTAL, SOCIAL AND CORPORATE GOVERNANCE PRACTICES.

We are committed to

impact through our

generating positive social

activities. We believe talent

and uniqueness are keu to

strive to maintain a diverse

workforce and an inclusive

Dassault Systèmes, which

environment. We put our

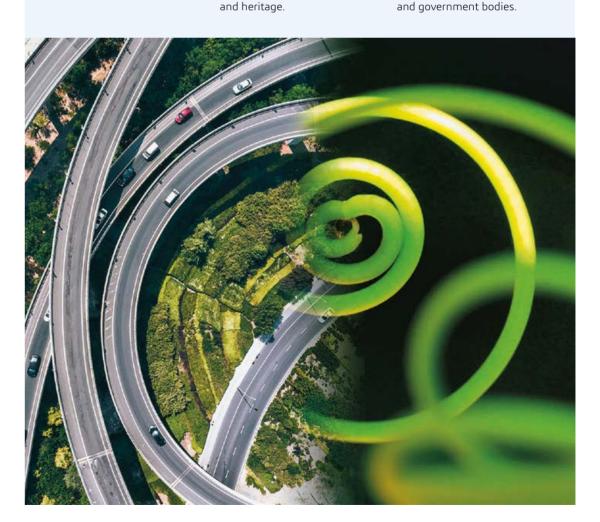
Environment

Reducing our environmental footprint – including the impact of our activities throughout the supply chain – is a priority. We have a global waste management system, including a specific program for electronic and electrical equipment at our sites. We have also set policies, processes and guidelines for other environmental concerns, including water management, air quality and acoustic pollution.

Social

As part of our vision for a better world, we run our business based on a set of ethics detailed in our Code of Business Conduct and disruptive innovation, so we Corporate Social Responsibility principles. These frameworks ensure that people are always at the heart of everything we do. We build relationships of virtual universes at the service of a more sustainable society, trust with all our stakeholders in part through La Fondation employees, customers, partners, suppliers, supports education, research shareholders, and regulatory and government bodies.

Governance



CORPORATE SOCIAL RESPONSIBILITY CORPORATE REPORT 2022

Fullfilling aspirations equally for all

We believe we need all of the world's brain power to create a better world. La Fondation Dassault Systèmes in India is helping to ensure that tomorrow's women have a chance to contribute.

One way we can make a difference in the world is by actively helping talented students to reach their full potential – wherever they come from and whatever their means. In India, **La Fondation Dassault Systèmes** is supporting bright young women from financially disadvantaged backgrounds through **ASPIRA – Fulfilling Her Aspirations Through Education.**

ASPIRA runs workshops on emerging technologies, finances engineering education, provides career counseling and helps organize internships that allow young women to gain practical experience in engineering and technology, preparing them to them to enter the job market and make a positive impact on their country.

The ASPIRA program comes in two sizes. Little ASPIRA runs in conjunction with Muktangan Exploratory Science Centre, sponsoring STEM skills development workshops for girls aged 12-15. Graduate ASPIRA teams up with Lila Poonawalla Foundation to provide engineering education for four years, with a dedicated Dassault Systèmes mentor guiding each student throughout the program. To date, more than 30 employees have been trained on mentoring skills, and are thrilled to give back. By showing the next generation an example of professional success, they hope to inspire girls and young women to pursue their ambitions and dreams without limits.





OUR ALL-INCLUSIVE APPROACH BRINGS OUT THE BEST IN EVERYONE

As a leader in sustainable innovation, we seek to encourage diversity in our company because we believe this is how we'll create truly disruptive solutions for our clients.

To this end, we are committed to strengthen the diversity of our global talent pool, which spans over 135 countries. And because people are at the heart of everything we do, we seek to improve the employee experience by making sure they each feel a sense of belonging in their everyday work life.

We've implemented inclusiveness policies and processes to give employees equal opportunities to grow their careers and contribute to our success as a company, regardless of gender, ability, LGBTQ+ orientation, identity or age. We hold both company-wide events and local activities to create awareness, both within the company and externally, and to make sure Diversity & Inclusion is embedded in all we do.

Providing a safe environment for all talents is at the core of our ethics. For instance, our US team celebrated October's National Coming Out Day by extending a program developed by our UK team.

The Lanyard Pledge Program promotes an active message of inclusion in the workplace to help everyone feel they can be themselves. We have many other projects in development, including a pilot Mental Health first aiders program.

CORPORATE SOCIAL RESPONSIBILITY CORPORATE REPORT 2022

Doing our part to help the world achieve its sustainability goals

Dassault Systèmes puts sustainability at the core of our business model, creating virtual universes that enable people and businesses to imagine more sustainable innovations that harmonize product, nature and life. **Philippine de T'Serclaes**, our new Chief Sustainability Officer, explains how.

50

Why did you choose to join Dassault Systèmes?

Dassault Systèmes has a unique positioning to accelerate the sustainability transformation of our customers. Having worked in both academia and business, I am highly impressed with our company's virtual loop, which connects research and testing and encourages risk taking. I hope to leverage the amazing expertise and knowledge of our 22,500+ highly motivated people who are passionate about sustainability, and empower them to advance our customers' sustainability journeys.

What do you view as today's most pressing sustainability challenges?

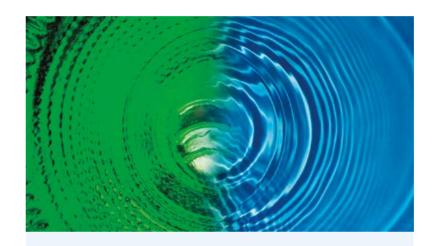
We are faced with the critical challenge of reaching the Paris Agreement's climate ambition of limiting global warming to 1.5°C below pre-industrial levels. We must preserve biodiversity and human societies. Our virtual twin technology can help our company and our customers rethink products, processes and business models to align with sustainability goals, all while unlocking economic value and reducing carbon emissions. Our portfolio supports our clients on their sustainability transformations at every scale. Of particular value is our new eco-design Life Cycle Assessment tool; it encourages circular economy practices by helping our customers visualize up to 80% of their products' and services' environmental impacts during the design stage. It also integrates a product's disassembly

process directly into product development and manufacturing, in order to identify and modify pertinent environmental impact points.

Why is it important to have employees who trained in sustainability principles?

Achieving our sustainability ambitions relies on the engagement and expertise of all Dassault Systèmes people. Employee engagement is the engine and fuel that allows us to realize our sustainability objectives and work towards creating a healthier planet for all. Each individual has a role to play in learning and incorporating best practices into as many aspects of their lives as possible. In turn, this can drive changes into our operations, solutions and company culture. By upskilling and engaging employees on sustainability topics while also managing of our environmental footprint, generating positive social impact within our teams, and pursuing ethical and sustainable growth, we walk the talk and demonstrate to our stakeholders our vision to achieve a more sustainable future.

Tomorrow's more sustainable economy will require new approaches to designing products, materials and manufacturing."



OUR SUSTAINABILITY COMPASS

SUSTAINABILITY IS AT THE HEART OF DASSAULT SYSTÈMES' MISSION. TO ACHIEVE THIS, WE ARE IMPLEMENTING A SUSTAINABILITY STRATEGY THROUGH THREE PRIORITY ACTIONS:

Expertise

we strive to 'walk the talk' and embed sustainability in everything we do (reduce our footprint)

Ecosystem

we work in partnership with customers, employees and other stakeholders (develop our human capital)

Customer engagement

we provide the tools and inspiration to innovate sustainably (support our customers)



Our new eco-design
Life Cycle Assessment tool
encourages circular economy
practices by helping our
customers visualize up to
80% of their products' and
services' environmental
impacts during the
design stage."

Philippine de T'Serclaes, Chief Sustainability Officer, Dassault Systèmes

What benefits does promoting diversity bring to a tech company like Dassault Systèmes?

Today, women only represent 17% of the global workforce in STEM – but we know these careers will represent 80% of jobs within the next decade. As a science-based company, we firmly believe that diversity brings more value to what we do and to what our clients produce. And so we strive to promote inclusivity and diversity to both increase the number of women working at Dassault Systèmes and attract more women to scientific careers, accompanying their professional developments in the field.

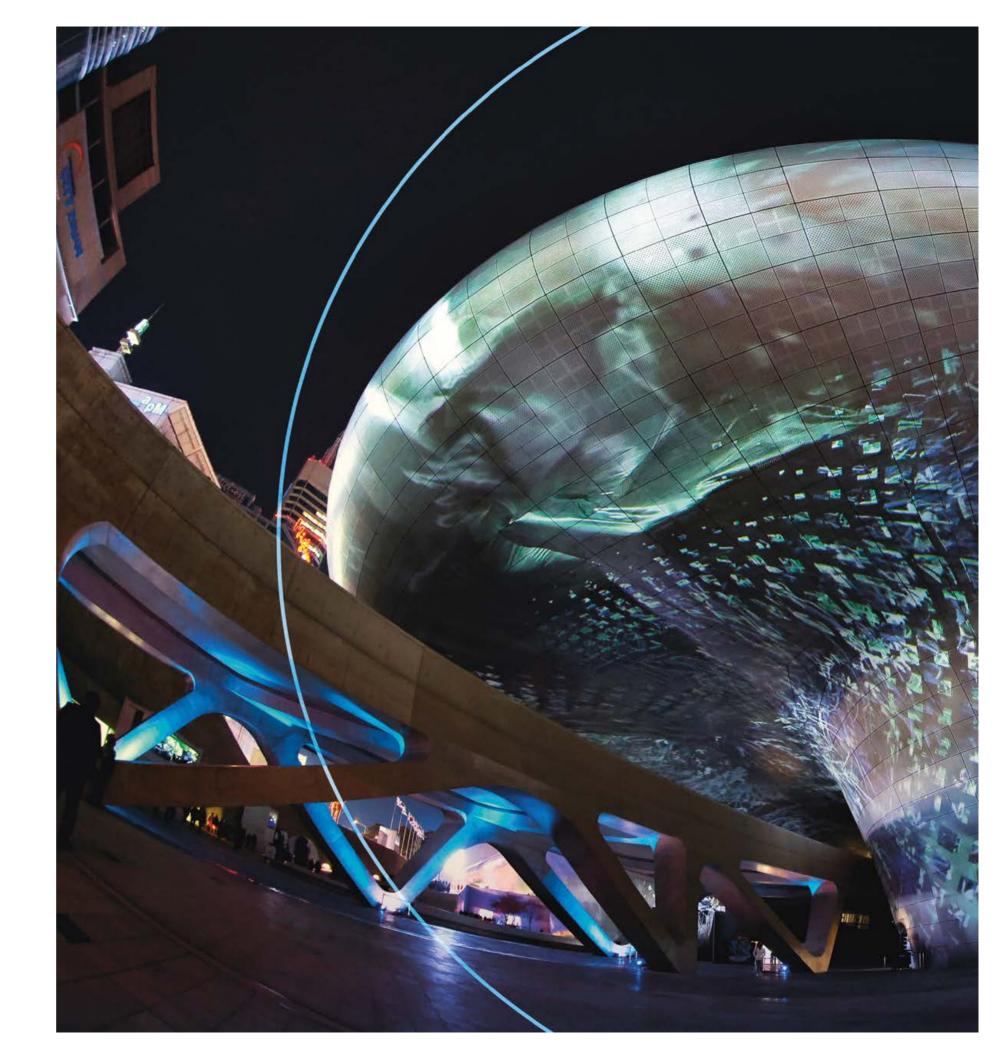
UNTIL NOW

cities and infrastructure were developed bit by bit, without consideration for comprehensive needs or systematic impacts

FROM NOW ON

cities are being reshaped to both accommodate modern realities and prepare for future change and an optimal experience for inhabitants

Can the virtual world help shape healthier, sustainable cities? That was the key question explored in our most recent Act of **The Only Progress is Human: Urban Renaissance** in **Seoul, Korea.**



THE ONLY PROGRESS IS HUMAN CORPORATE REPORT 2022

How can the virtual world improve urban experience?

Dassault Systèmes is shedding light on 10 major challenges faced by humanity. For each challenge, we respond with an Act that symbolizes our commitment to help our planet survive and thrive. Because we believe **The Only Progress is Human**, we seek to inspire others to act in their own spheres, for the good of all.

In 2022 we highlighted our **Urban Renaissance Act** to demonstrate how virtual twins of cities can improve the lives of citizens because we can now test infinite solutions before implementing them in

the real world. We chose the vibrant city of Seoul as the backdrop for this Act. Multimedia artist Yiyung Kang created an extraordinary light show that projected a 3D video mapping of a future city onto the Dongdaemun Design Plaza (DDP), to explore how sustainable cities can thrive as urbanization increases.

A round-table discussion followed the immersive experience, where experts shared their viewpoints about what urban living will look like in coming years and how science-based virtual twins will be vital in imagining a sustainable circular future.

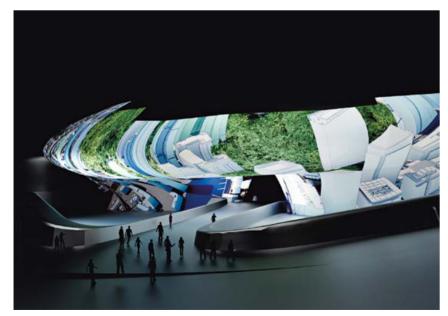


For our Urban Renaissance Act we were thrilled to collaborate with Korean artist, Yiyun Kang. Combining her talent and our vision for the city of Seoul's future, we presented an immersive 3D projection on the Dongdaemun Design Plaza, an emblematic monument in the Korean capital."

Victoire de Margerie, Vice-President, Corporate Equity, Marketing & Communications



Experience the Urban Renaissance Act





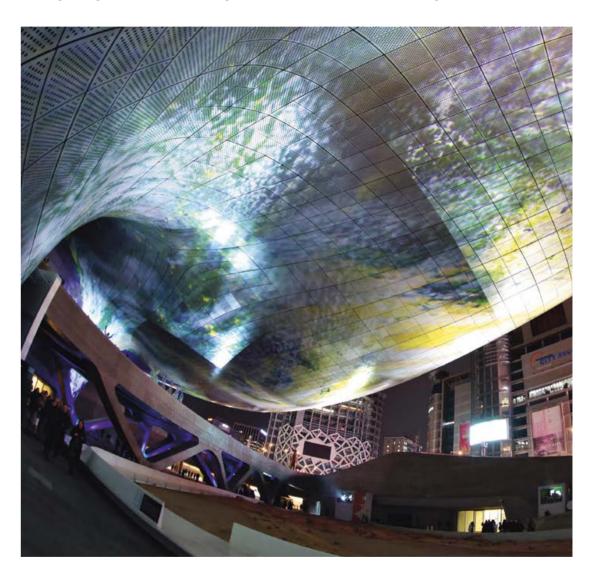
By building virtual representations of a city, we can aggregate data, understand how it applies to different districts of the city, to different demographics, and different parts of the population. We can understand, for example, what could possibly happen if we add a bridge here, or if we improve mobility in this other area. I think that is really the power of virtual twins."

Pedro Diez Cocero,

Portfolio Manager, Architecture, Engineering & Construction, Dassault Systèmes All major cities face traffic congestion, which triggers many associated issues such as air quality and noise pollution. Leveraging the power of 3D modeling and simulation, local authorities can review unlimited "what if" scenarios to make public policy decisions based on science. This is the power of a city virtual twin: public authorities and their ecosystem (corporations, communities, citizens...) can better understand and improve the real world while also building consensus with all stakeholders."

Jacques Beltran,

Vice-President, Cities and Public Services, Dassault Systèmes



**DDP was conceived to be integrated within Korean traditional design values. This creates a unique journey for the visitors in how they experience and navigate the building through this multiplicity of vistas and connections below and above, and throughout. Through all these cutouts, within the building, to the sky, to the ground, with fly bridges."

Bogdan Zaha, Associate, Zaha Hadid Architects

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Design and production: HAVAS PARIS







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