



3DEXPERIENCE®

Dassault Systèmes Virtual Twin Experiences

November 10th, 2021

DS DASSAULT SYSTEMES | The 3DEXPERIENCE® Company

Dassault Systèmes Virtual Twin Experiences

JP Morgan Digital Twin Seminar



Claire BIOT

VP Life Sciences & Healthcare Industry



Laurence MONTANARI

VP Transportation & Mobility Industry

Agenda

Introduction

Experience | Health & Mobility

V+R | Real-World Data & Real-World Evidence

Science | Catalyst of Breakthrough Innovation

Conclusion

Our Belief



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



Experience | Health & Mobility

The Patient Experience



Personalized Food
for health &
wellness



Continuous
Monitoring



Prevent,
Not Treat



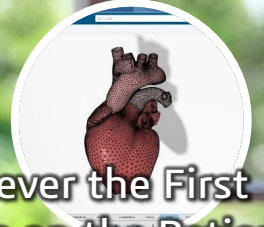
No Decision About Me
Without Me



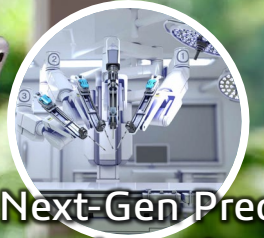
Doctors as
Health Advisors



Health Coverage
for All



Never the First
Time on the Patient

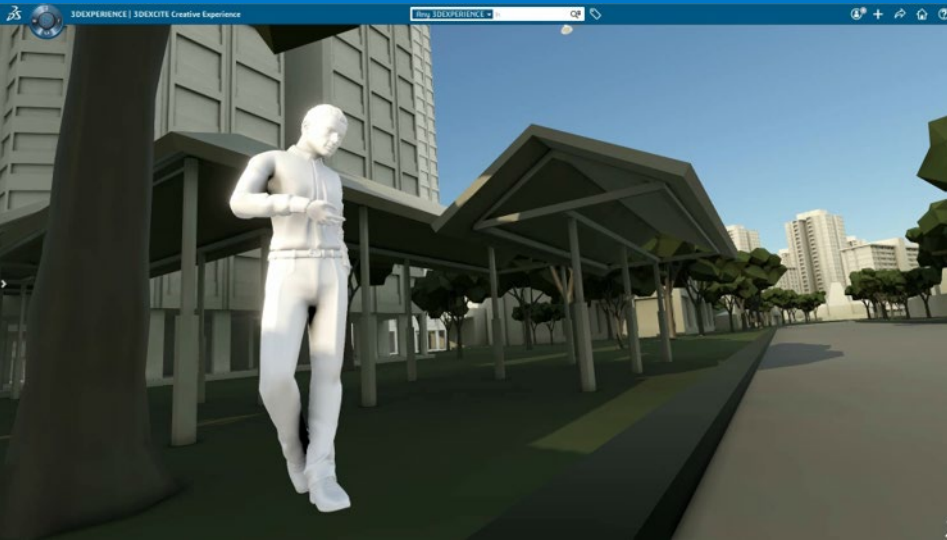
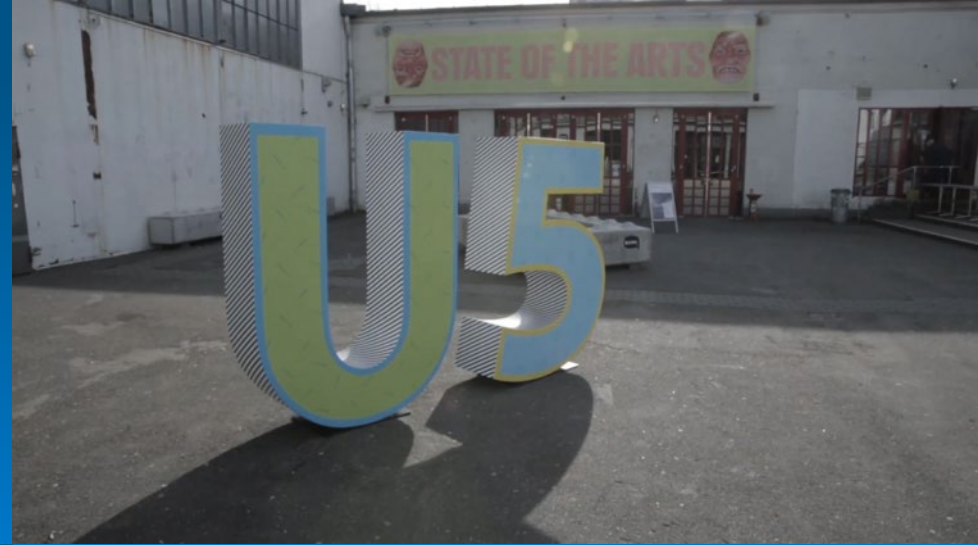


Next-Gen Precise
Therapies



Continuous
Health Journey

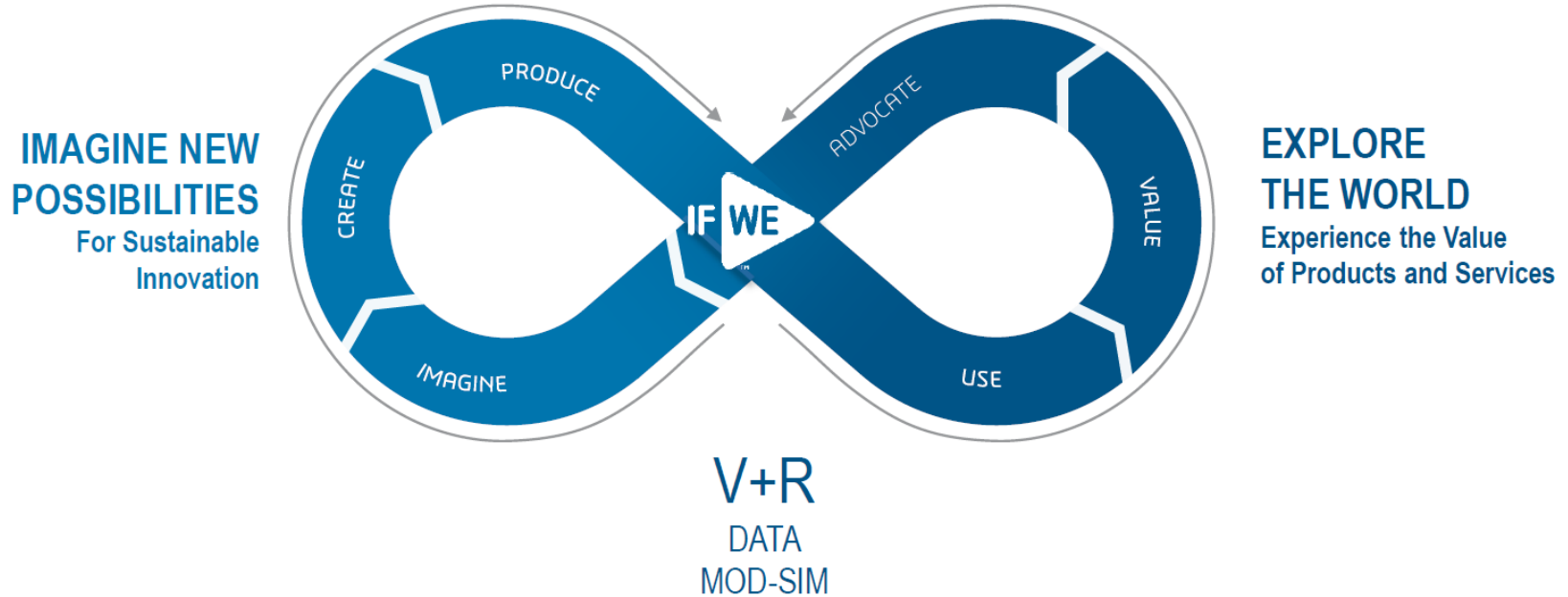
Define & Play New Mobility Experience ...



... Human in the Center of Multi-modal new Experiences Usage

3DEXPERIENCE IFWE LOOP

EXPERIENCE | CIRCULAR ECONOMY | VALUE NETWORK



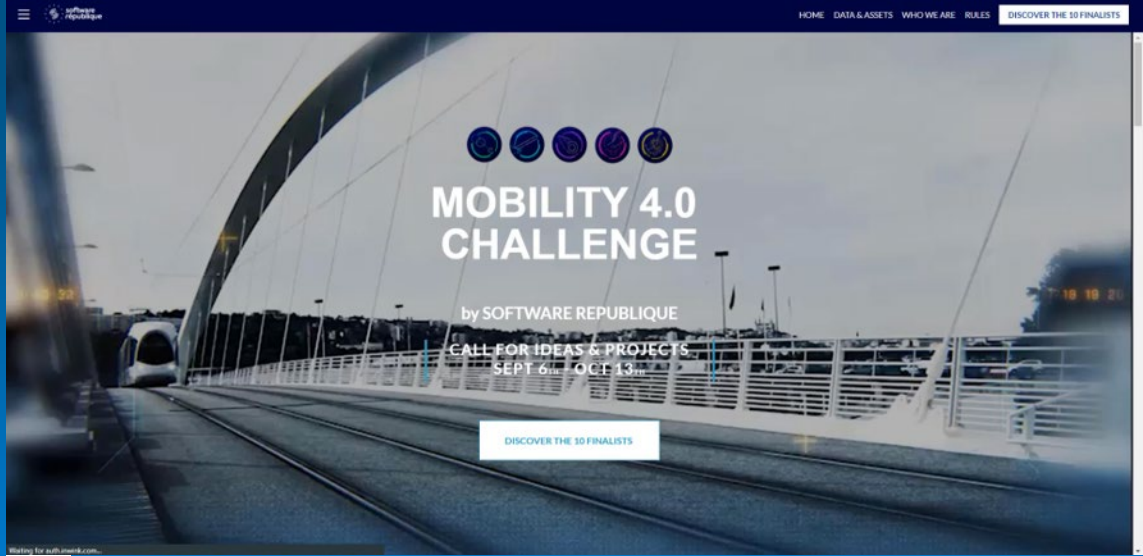
154721 AGE 44
FRONT



V+R | Real-World Data & Real-World Evidence

**Sovereignty for New Mobilities'
Software Development**

For the first time, 6 of the largest / major European companies have united to form the Software République, providing data, technical tools, knowledge and expertise, giving the opportunity to create disrupting use cases that will serve business interests with a positive impact.






3DEXPERIENCE platform with:

- ▶ Smart, Safe & Connected
- ▶ Global Modular Architecture
- ▶ Efficient Multi-Energy Platform

Half of the roles are data-centric

Jaguar Land Rover Expands 3DEXPERIENCE Adoption

Leading luxury car manufacturer

Business Value:

Supporting new global strategy – Reimagine – under the leadership of CEO, Thierry Bolloré

- ▶ Net zero carbon business by 2039
- ▶ Jaguar all-electric luxury brand from 2025
- ▶ First all-electric Land Rover model in 2024
- ▶ Clean-hydrogen fuel-cell power development
- ▶ Collaboration with the value network





Increase quality



Reduce time to market



Improve access to information across the business

eXtended Virtual Twin - Data analytics

Data analytics

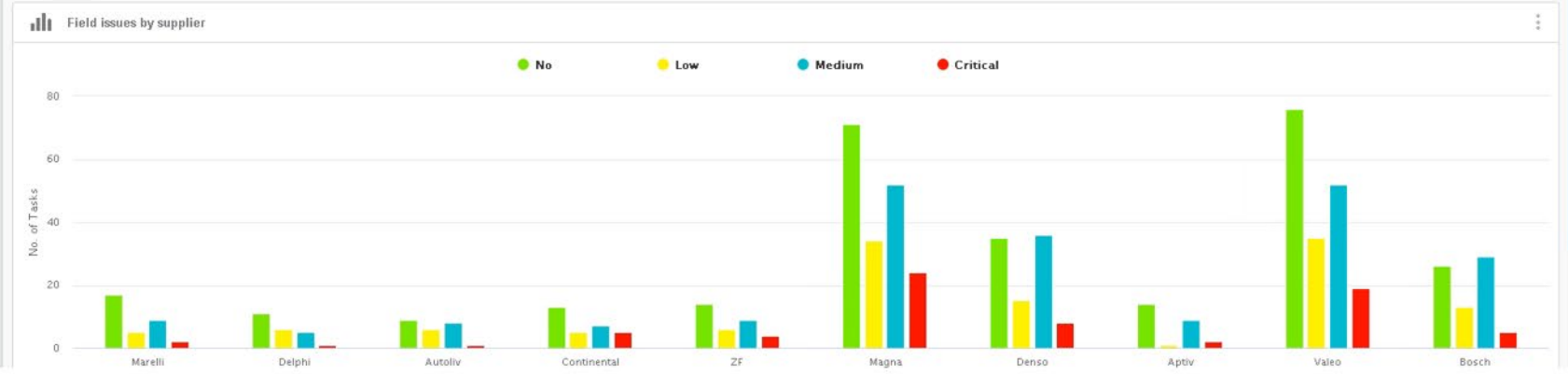
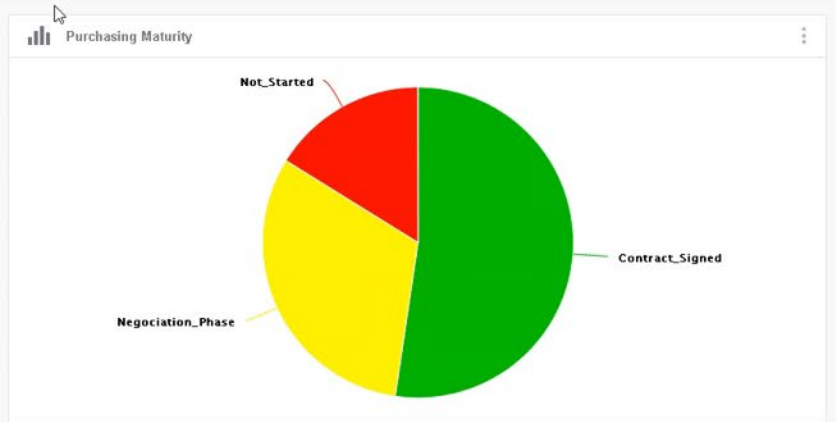
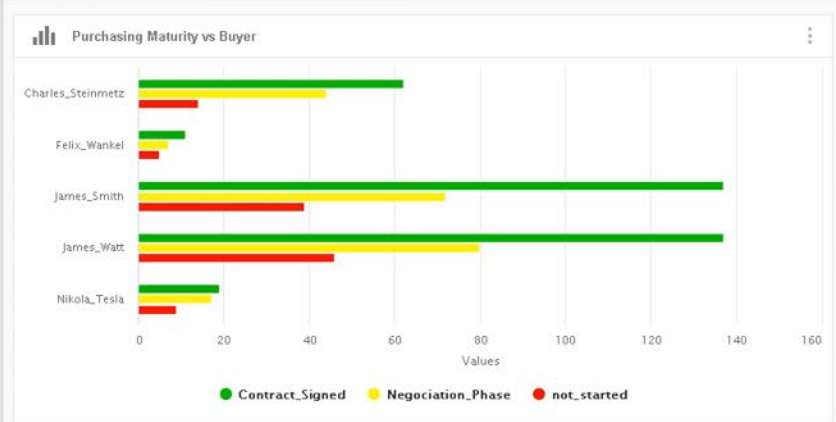
- Data analytics
- Incidents
- Details

Tools

- Filter

Data analytics

Active Filters: No active filters | Add a filter...



Linking Clinical Trial and Real World Data



Clinical Trial Data

Real World Data



PRE TRIAL

- Future proof a sponsor's clinical trials
- Patient insights for enhanced baselining

IN TRIAL

- Enhanced data collection to track outcomes and safety
- Reducing patient burden

POST TRIAL

- Head start in evidence generation



Medidata Launches Medidata Link, the First Centralized Technology Solution to Connect and Analyze Patient-Level Clinical Trial Data and Real-World Data

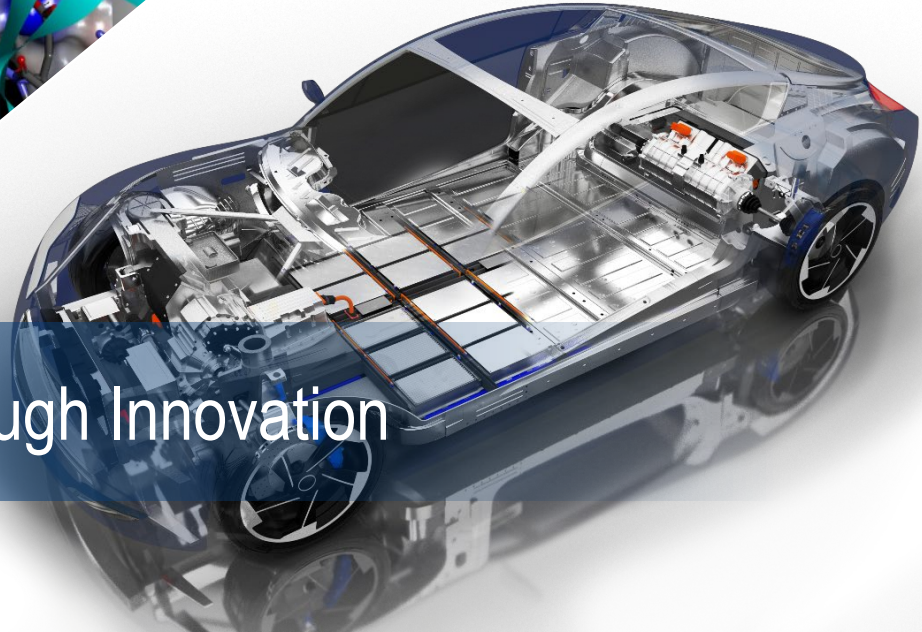
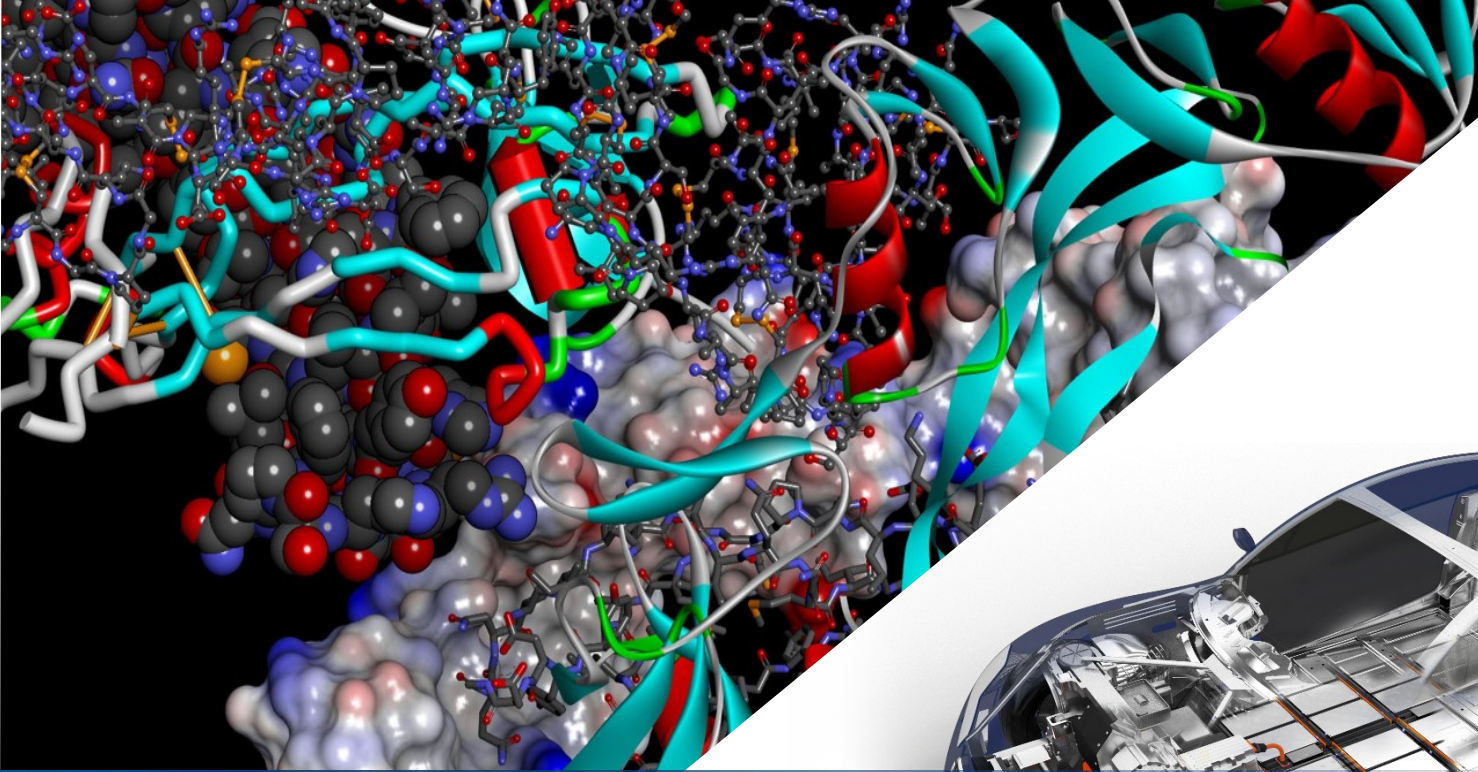
- Medidata Link connects patient-level Clinical Trial and Real-World Data to enhance understanding of therapeutic efficacy and outcomes, enhance safety and reduce patient and site burden
- Fully integrated with the Medidata Unified Platform, Medidata Link works across paper or eConsent models, seamlessly collects data at multiple research sites, has pre-built integrations with a variety of tokenization technology partners, and connects to the industry's broadest ecosystem of real-world data

New York, NY – October 7, 2021 – Medidata, a Dassault Systèmes company, today announced the launch of [Medidata Link](#) at NEXT Global 2021. Medidata Link is the only centralized solution to connect patient-level clinical trial data and real-world data (RWD) – powered by and fully integrated with the [Medidata Unified Platform](#) – providing any clinical trial run on Medidata Rave EDC (electronic data capture) the option to conduct data linkage.

“Medidata Link provides the opportunity to enhance evidence generation activities, including needs that were not originally anticipated, which allows sponsors to collect trial data and connect it to patients' RWD,” said Sastry Chilukuri, co-CEO of Medidata. “This transformational capability bridges evidence gaps, and helps create the insights necessary to save time and bring more confidence in clinical decision making.”

[Press release](#)

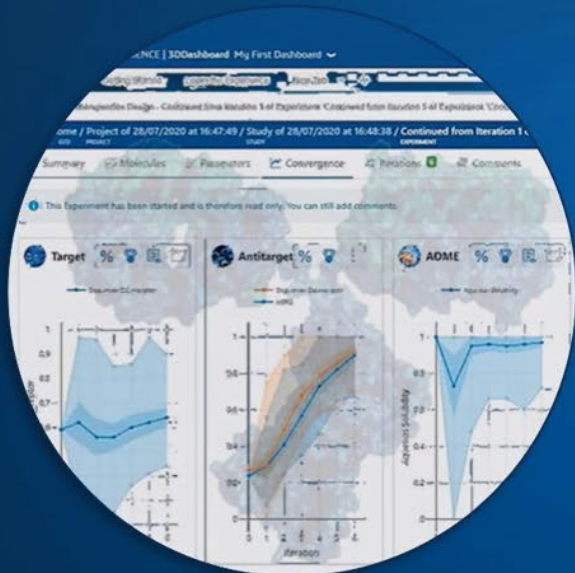




Science | Catalyst of Breakthrough Innovation

AI-Assisted Drug Design and Development

Virtual



Explore New Targets

Create & Advance Virtual Designs



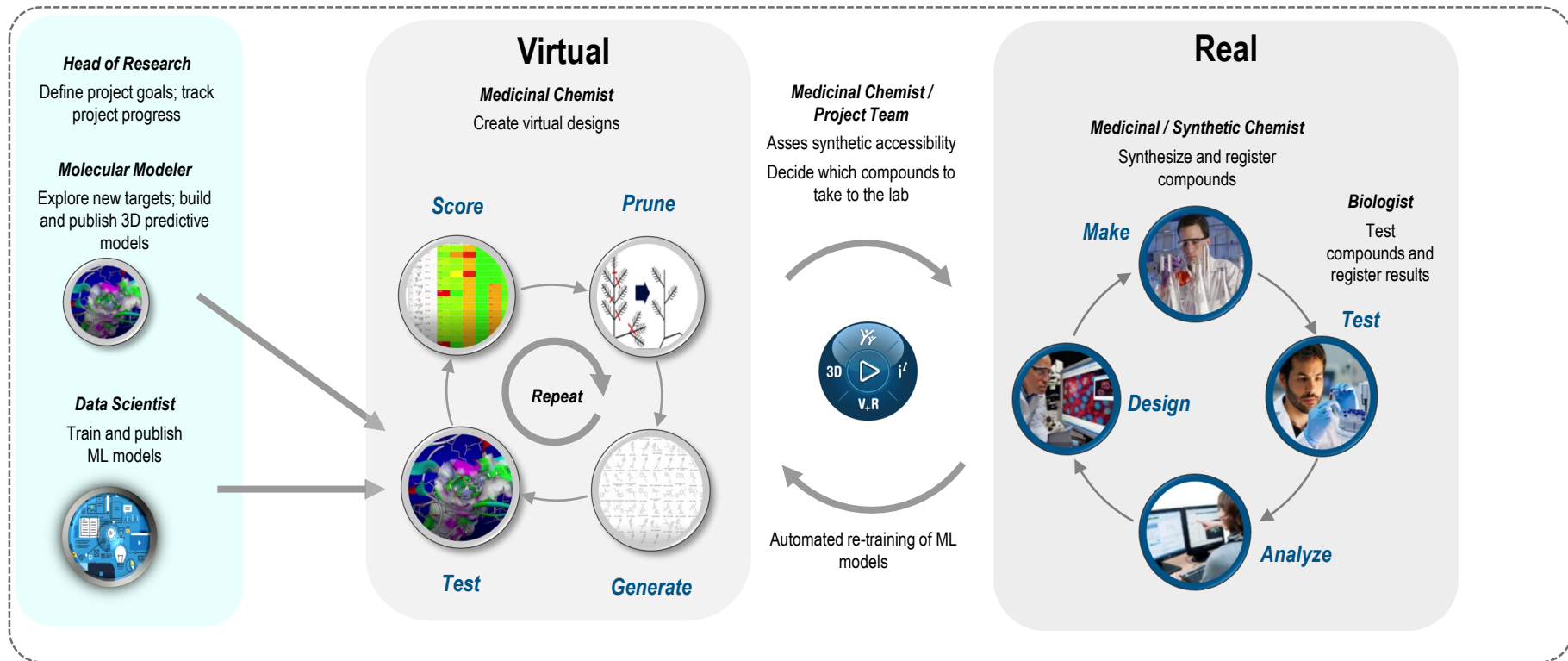
Real



Ensure Safety and Efficacy

Synthesize and Register Compound

The Scientific Innovation Cycle | Generative Therapeutics Design



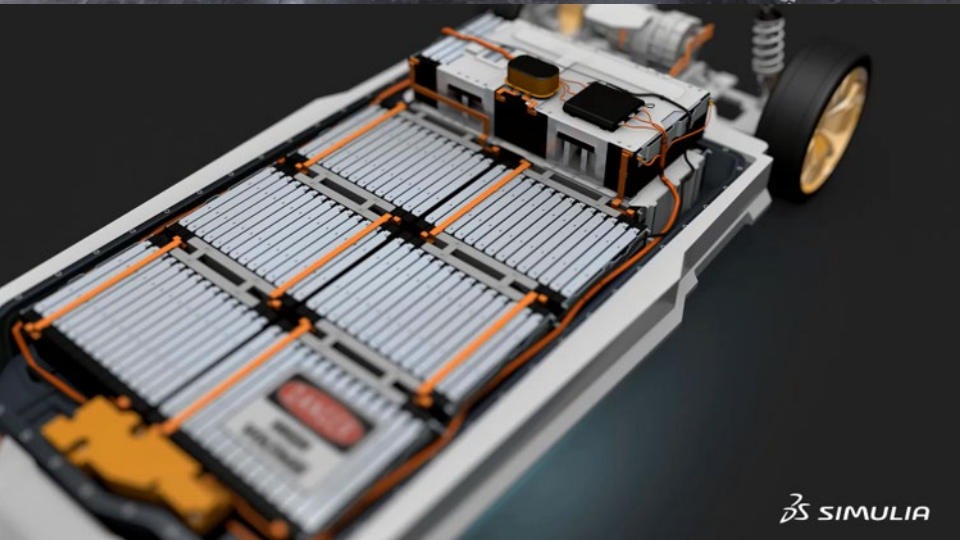


Acceleration of Decarbonization for Sustainable Vehicles



3DEXPERIENCE

3DEXPERIENCE supports **battery engineering** based on scientific and complex foundations, from **chemistry to physics and software**, with extended value network which is going under major transformations.



The screenshot displays a simulation environment with a left-hand tree view listing various battery and charging parameters. A central window titled 'Charging Control Status' is active, showing the following data:

From DBM	To DBM
SOC: 0.2000	Charging power: 35000.0000
Cell I max: 26.6499	endSOC: 0.8000
Charging current: 83.8188	Disconnect Switch: false
Min Cell Voltage: 3.1723	safetyMode: false
simulationTrigger: true	

Below the parameters is a graph titled 'maxSOC' showing a sharp increase in SOC from 0 to approximately 0.8 at the end of the simulation. A 'startCharging' button is visible in the bottom right of the control window.

Agenda

Introduction

Experience | Health & Mobility

V+R | Real-World Data & Real-World Evidence

Science | Catalyst of Breakthrough Innovation

Conclusion

Conclusion

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



