



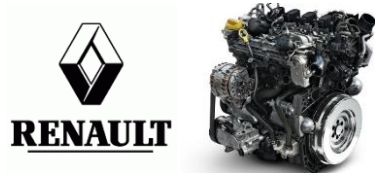
3DEXPERIENCE®

Dassault Systèmes Virtual Twin Experiences

DB Autotech conference
December 9th, 2021

DS DASSAULT
SYSTEMES | The 3DEXPERIENCE® Company

My Experience in a Few Words



- 1992: mechanical engineer at Renault



- ▶ Quickly moved to Services, holding various positions in this division: helpdesk, recall campaigns, after sales documentation, Accessories Program director.



Dassault Systèmes Enables Renault's LCI to Experiment with an Electric Car for Last-Mile Delivery

- Renault's in-house Cooperative Innovation Laboratory (LCI) uses 3DEXPERIENCE platform to imagine disruptive mobility solution for urban areas
- Real-time, secure collaboration on the cloud gives LCI team the agility of a startup
- Virtual value network connects diverse internal and external project team members



Groupe Renault

Dassault Systèmes, Press Release May, 2019

- ▶ Project leader of disruptive vehicles : Pre-Project of Twizy, Renault EZ FLEX

Agenda

Introduction

Experience | Mobility

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

Science | Catalyst of Breakthrough Innovation

Conclusion

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Our belief

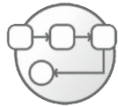
Real



Virtual

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

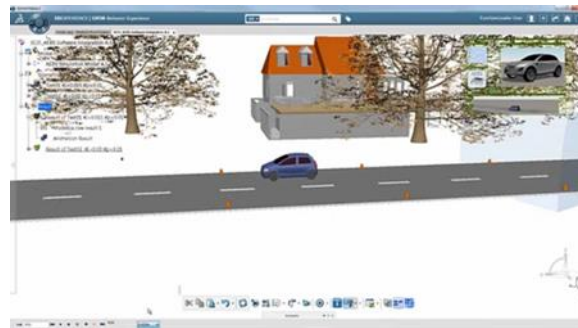
3DS' portfolio to address Automotive challenges ...



Systems Design



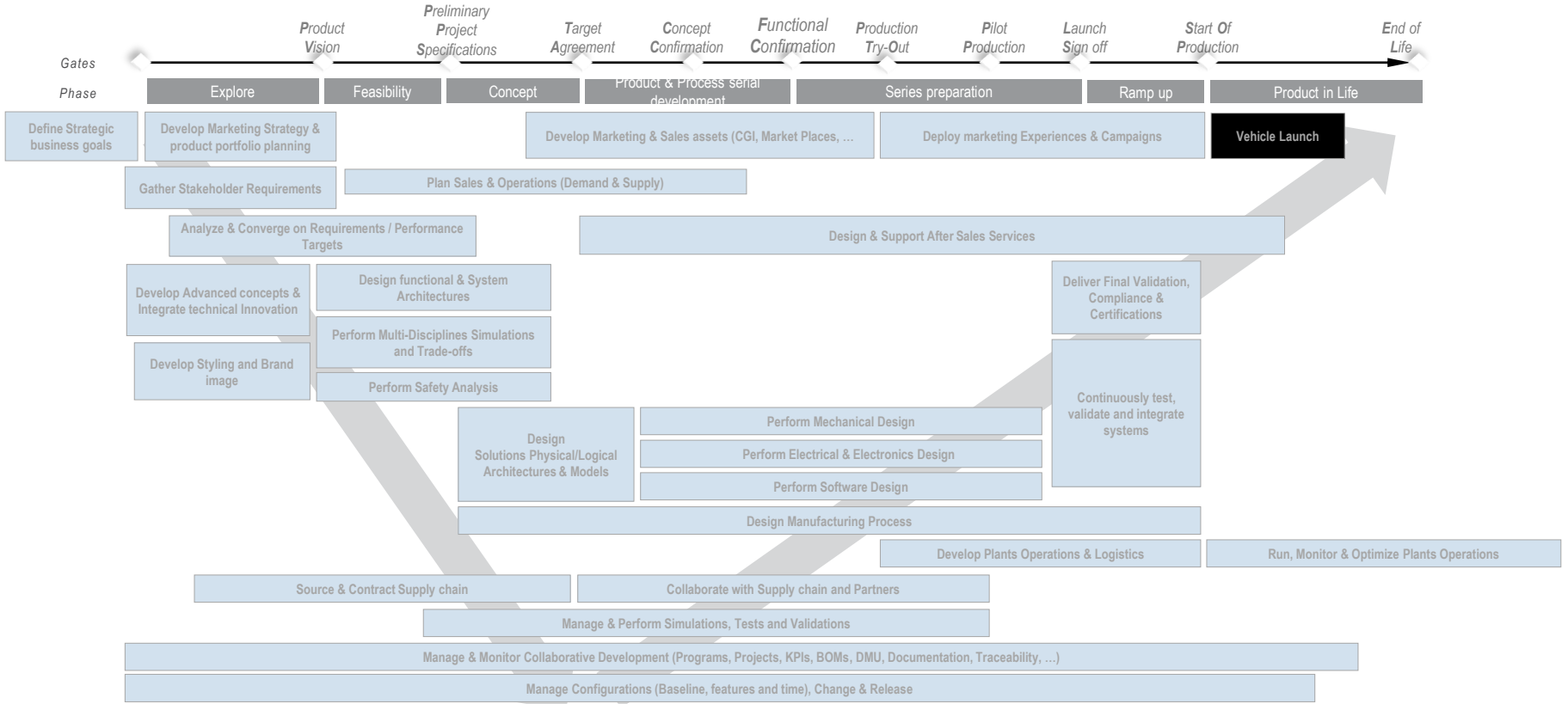
Virtual Validation



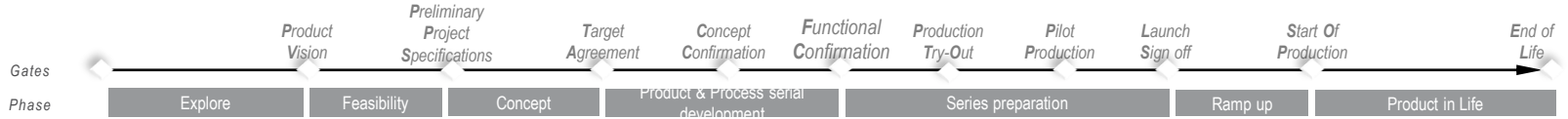
Usage Experience



... are implemented through generic processes ...



... are supported with best in class Industry Solutions ...



GLOBAL MODULAR ARCHITECTURE

ENHANCE COLLABORATION AND MASTER COMPLEXITY TO DRIVE PROFITABILITY



DRIVE EMOTION

CREATE 3D SKETCHES AND VALIDATE VIRTUAL DESIGNS IN A FULLY-IMMERSIVE ENVIRONMENT



VIRTUAL GARAGE

BOOST MARKETING CAMPAIGNS AND ENHANCE BUYING EXPERIENCES



AFTERSALES & CUSTOMER SERVICE

IMPROVE CUSTOMER SATISFACTION AND ASSET AVAILABILITY / SERVICEABILITY



EFFICIENT MULTI-ENERGY PLATFORM

DEVELOP VERSATILE PLATFORMS WITH OPTIMIZED COMFORT AND SAFETY



SMART, SAFE & CONNECTED

DESIGN, VALIDATE, DELIVER THE INTELLIGENT VEHICLE EXPERIENCE

SMART MOBILITY OPERATIONS

IMPROVE MARGINS THROUGH NEW BUSINESS MODELS



ON-TARGET VEHICLE LAUNCH

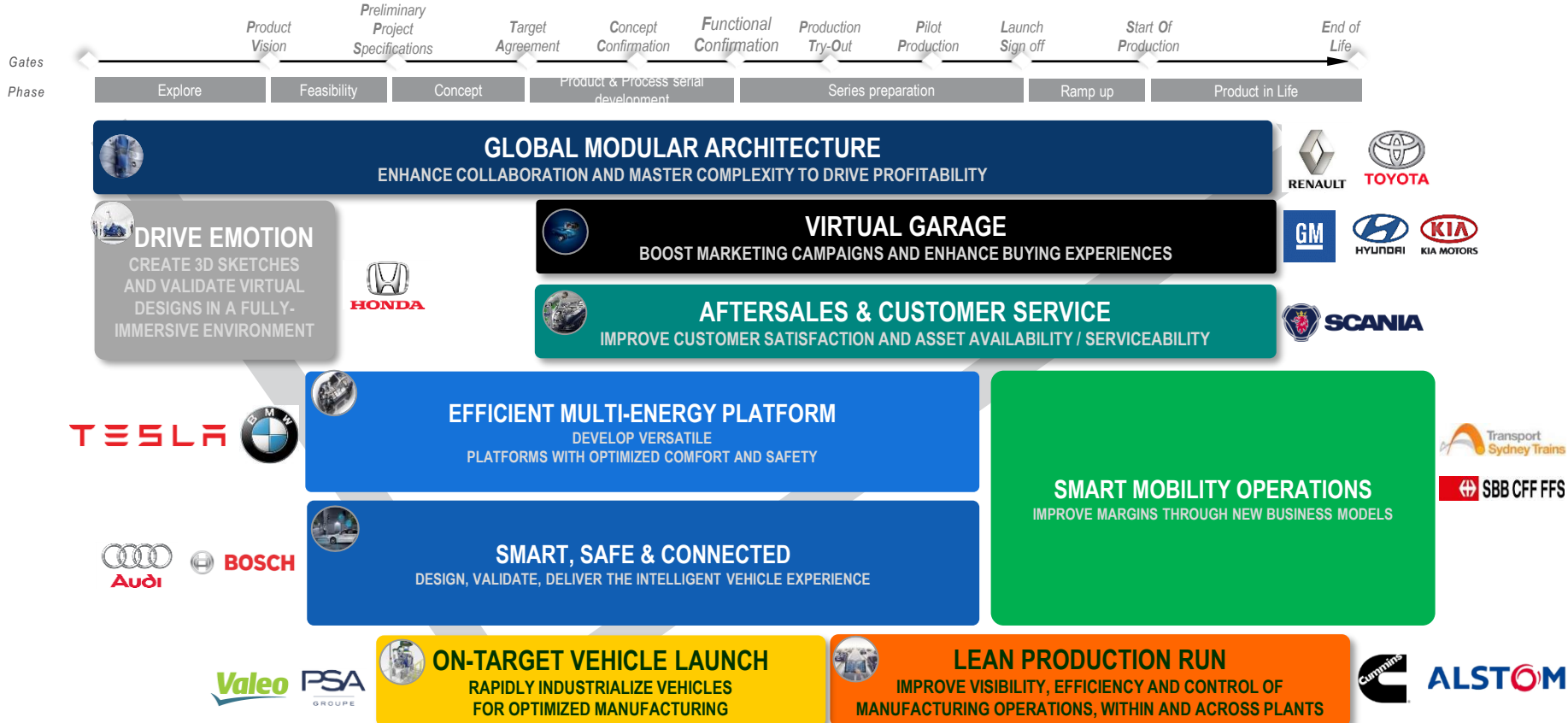
RAPIDLY INDUSTRIALIZE VEHICLES FOR OPTIMIZED MANUFACTURING



LEAN PRODUCTION RUN

IMPROVE VISIBILITY, EFFICIENCY AND CONTROL OF MANUFACTURING OPERATIONS, WITHIN AND ACROSS PLANTS

... implemented in partners Customers





BMW

Sharpen Production



Component Production planning and scheduling
Starting with 3 E-Drive production sites



3DEXPERIENCE platform with:

► Lean Production Run

Business Value:

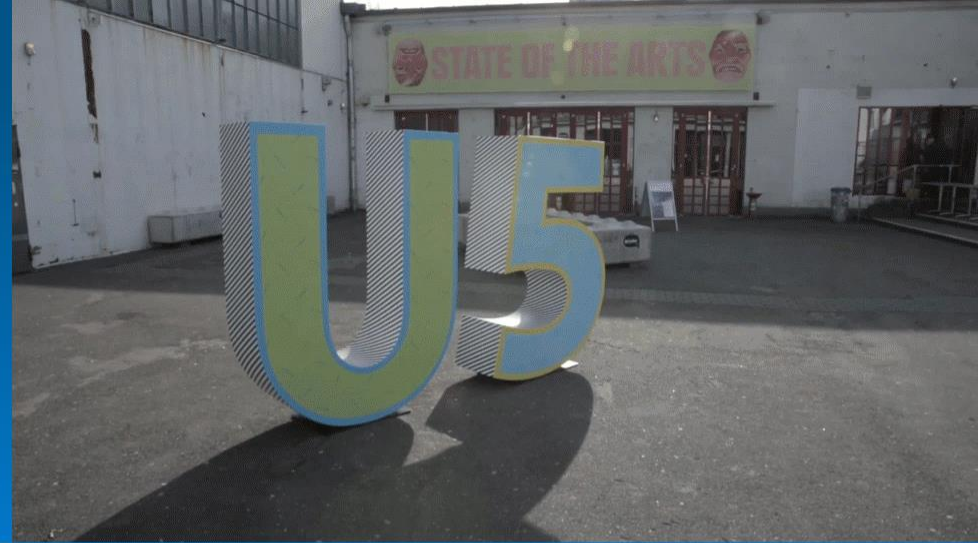


- Empower better, faster decisions to improve manufacturing's key performance indicators
- Master rapid evolution and perturbations of complex automotive components production .
- The DELMIA Quintiq environment synchronizes demand from vehicle plants for components.
- Increases productivity while reducing inventories and costs
- The plan includes the improvement of production processes at all five stamping plants of the group of companies in Germany



Experience | Mobility

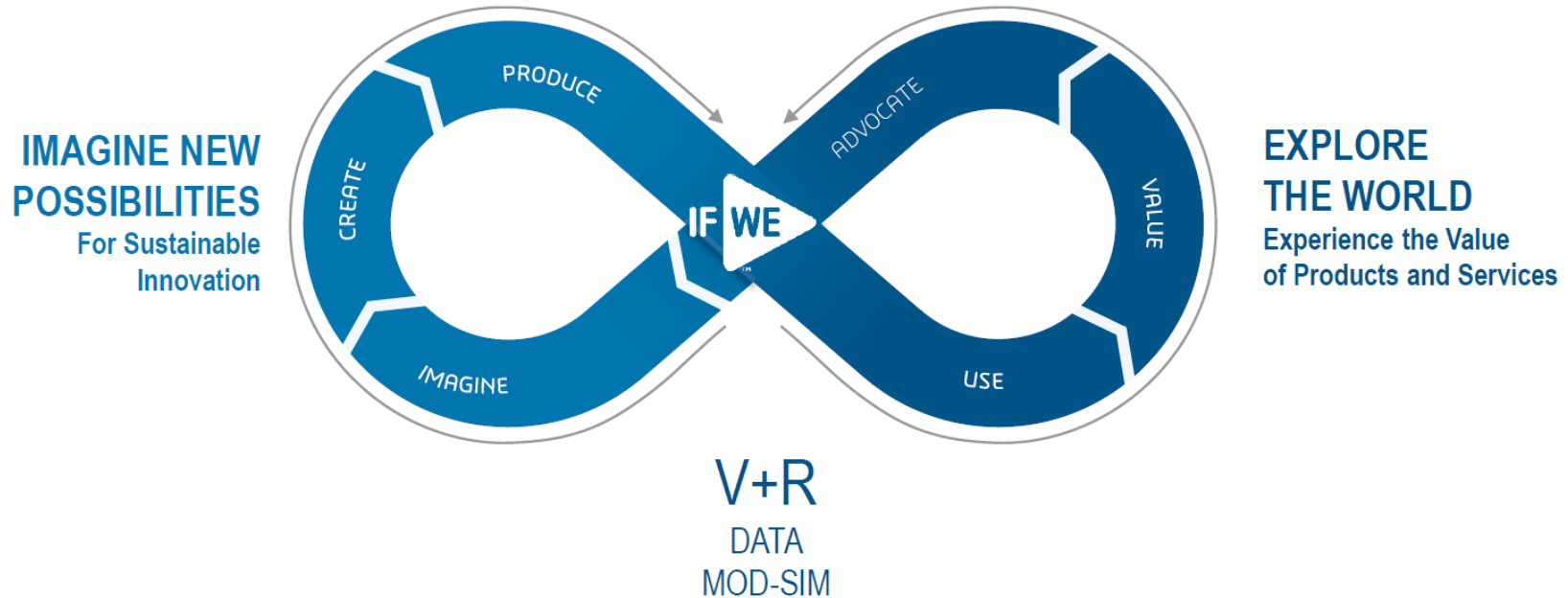
Define & Play New Mobility Experience ...



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

3DEXPERIENCE IFWE LOOP

EXPERIENCE | CIRCULAR ECONOMY | VALUE NETWORK

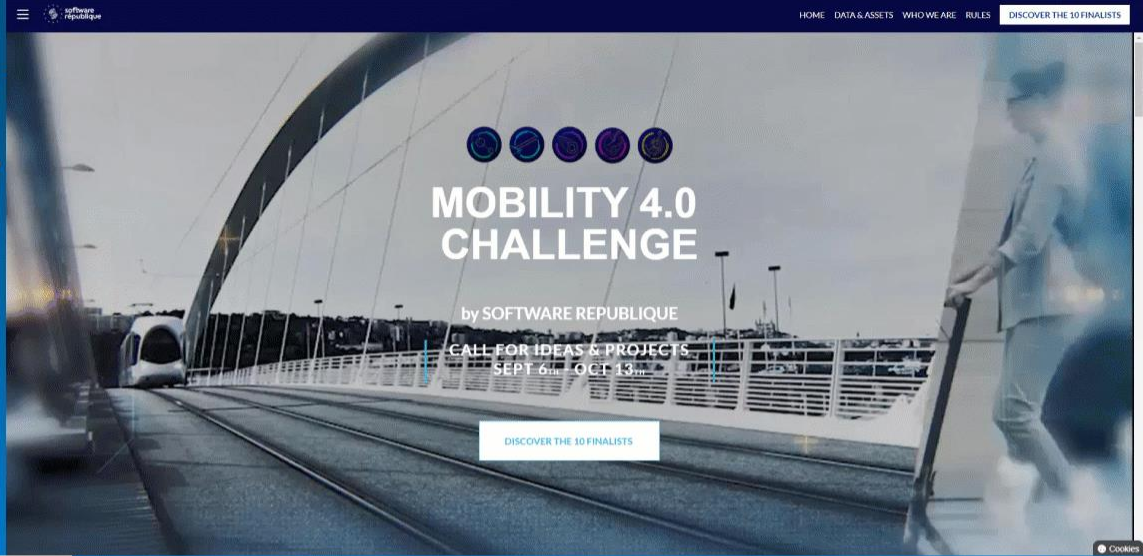




V+R | Real-World Data & Real-World Evidence

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

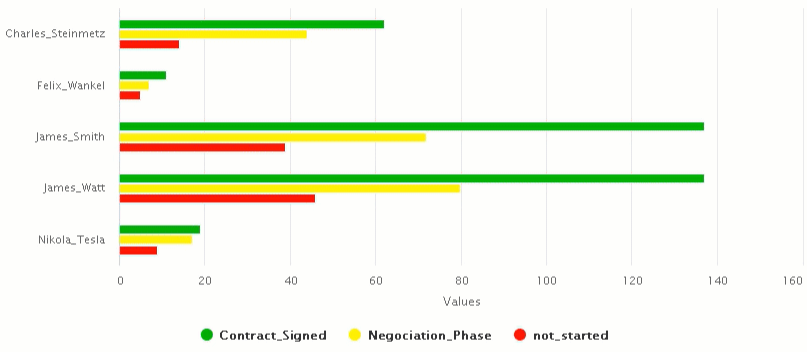
Improve access to information across the business

- Data analytics
 - Incidents
 - Details
- Tools
- Filter

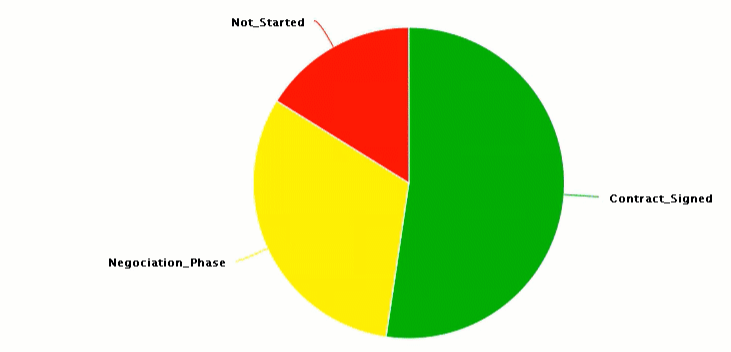
Data analytics

Active Filters No active filters Add a filter...

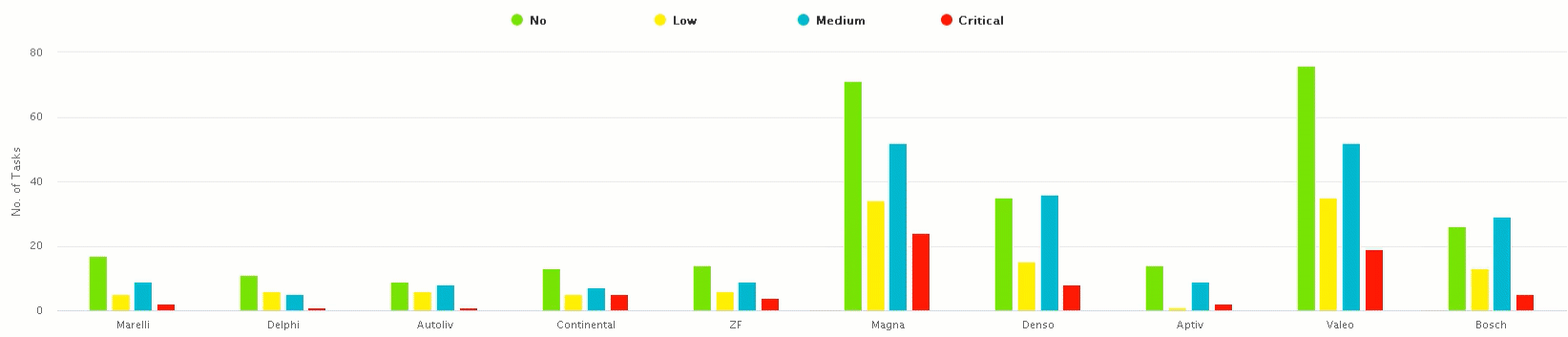
Purchasing Maturity vs Buyer

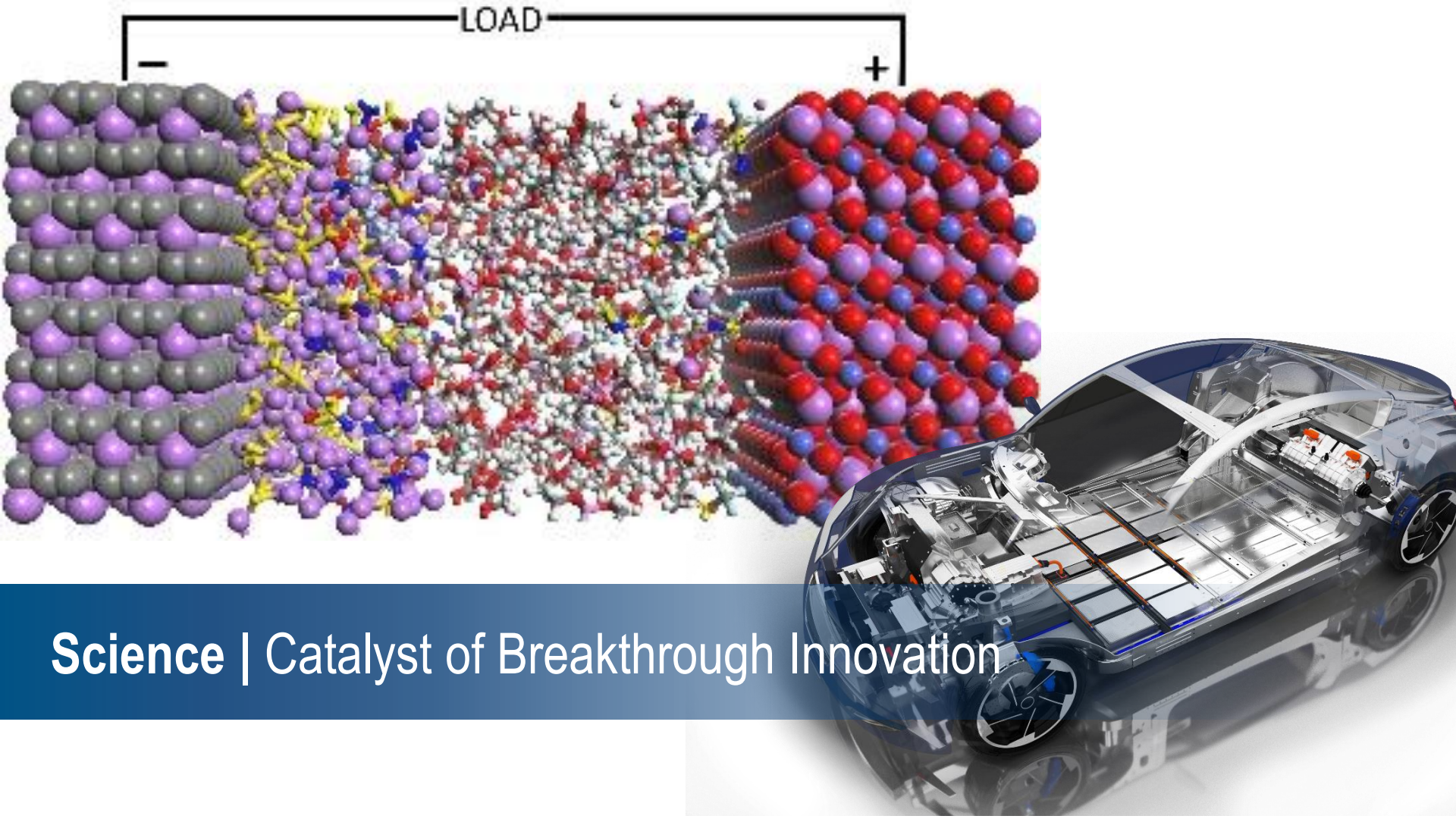


Purchasing Maturity



Field issues by supplier





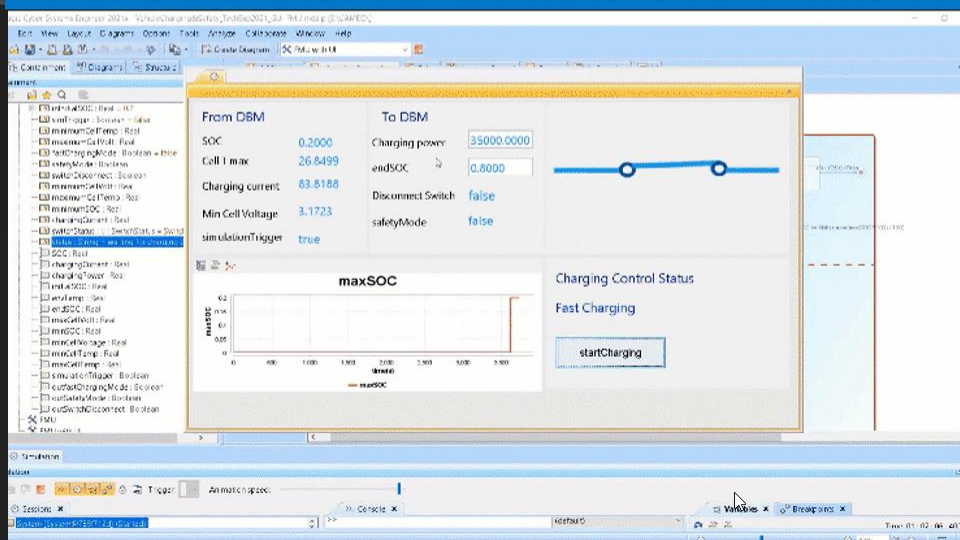
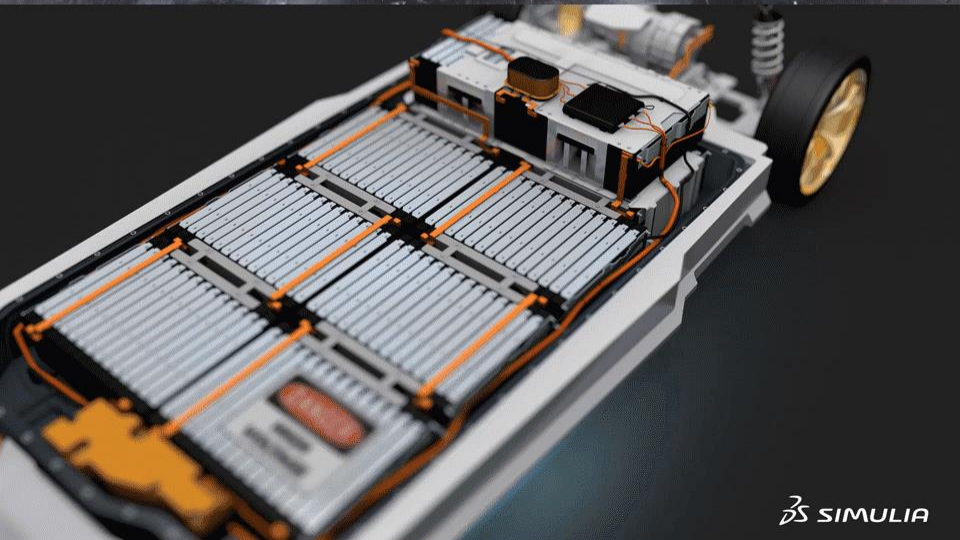
Science | Catalyst of Breakthrough Innovation



Acceleration of Decarbonization for Sustainable Vehicles



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.



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



