



ACCELERATE PRODUCT DEVELOPMENT WITH INTEGRATED SYSTEMS ENGINEERING AND MODSIM



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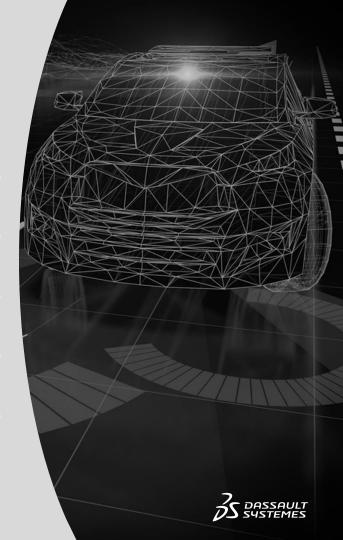
TIMES ARE CHANGING

Traditional		Challenger
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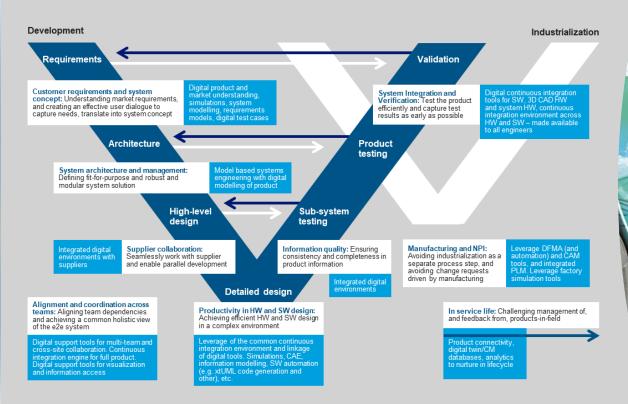
Cost: ¹ Overall platform development costs	€4 – 6bn.	€0,5 – 1bn.
Time: New vehicle time to market	45 - 60 months	18 - 36 months
Quality : Frequency of full vehicle tests	Monthly	Twice a day
Culture : Individual outcome responsibility	20-30%	80-100%







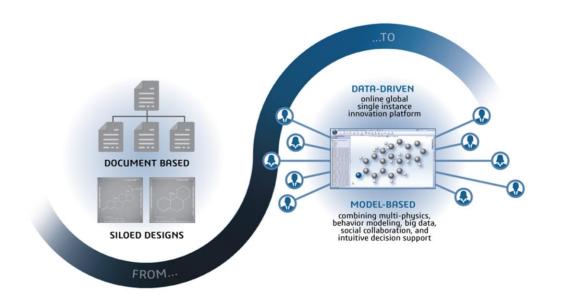
INTEGRATED ENGINEERING CHALLENGE





UNIFIED MODEL BASED ENGINEERING





Enabling 'What-If' Studies and decision making with full traceability

Facilitate Multi-scale & Multi Physics collaboration

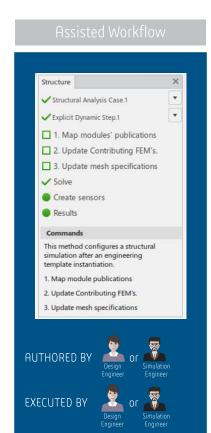
Improve Product Quality

A key step toward AI/ML



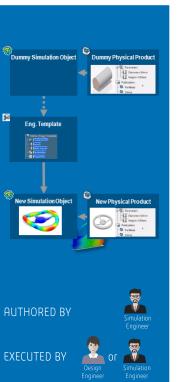
SIMULATION DEMOCRATIZATION

50



Templated Workflow

Web Interface





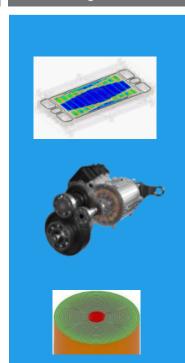


MODSIM CONCEPT, DESIGN SPACE EXPLORATION & TRADE-OFF





Generative Engineering





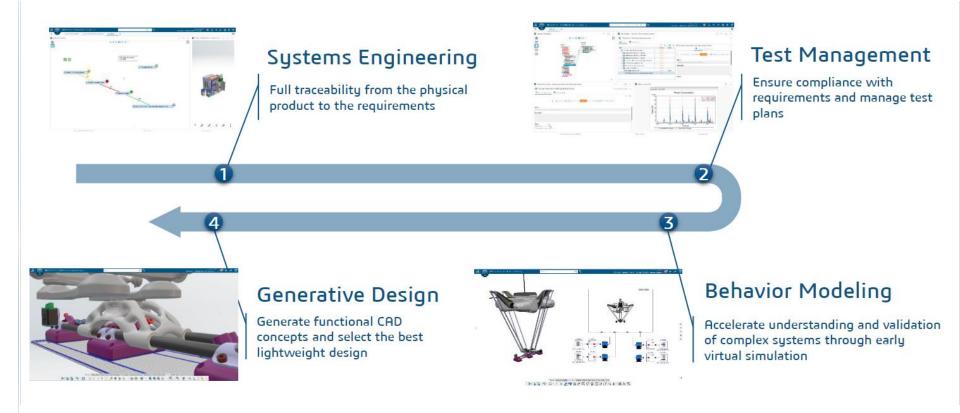
Design right the 1st time

Reduction of costly late design changes

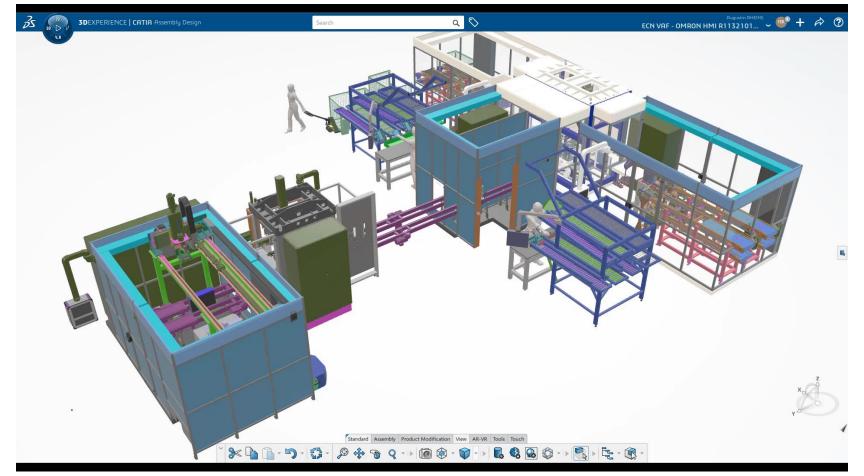
Explore more and new designs



TRACEABILITY: FROM PRODUCTION TO SIMULATION









CONCLUSION



Simplify complexityModel Based Engineering

Accelerate efficiencySimulation Democratization and Methods Digitalization

Drive innovationMODSIM Concept, Design
Space Exploration & Trade-off



ACCELERATE PRODUCT DEVELOPMENT WITH INTEGRATED SYSTEMS ENGINEERING AND MODSIM

Platform Simulation in
Electrical Engine
Development –
Seamless Data Flow from
Requirements to Assembly
Planning

Streamlining Concept
Structure Engineering for
Faster, Smarter Development

Dive Deep into the Efficient Development of Future Air-Rescue Vehicles Using MODSIM



DASSAULT SYSTEMES

HORYZN

Morten Huber, 3DS

Florian Hübler, 3DS

Stefan Mertz, 3DS Michel Schäfer, 3DS Lucas Lindner, HORYZN





THANK YOU FOR YOUR INTEREST