

World Challenges





















Robotics

IOT

Electrical Vehicles

Transformational Trends

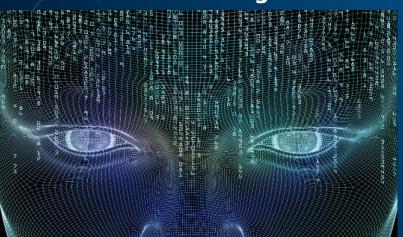
Mobility

Class

Higher Loop

H

Artificial Intelligence



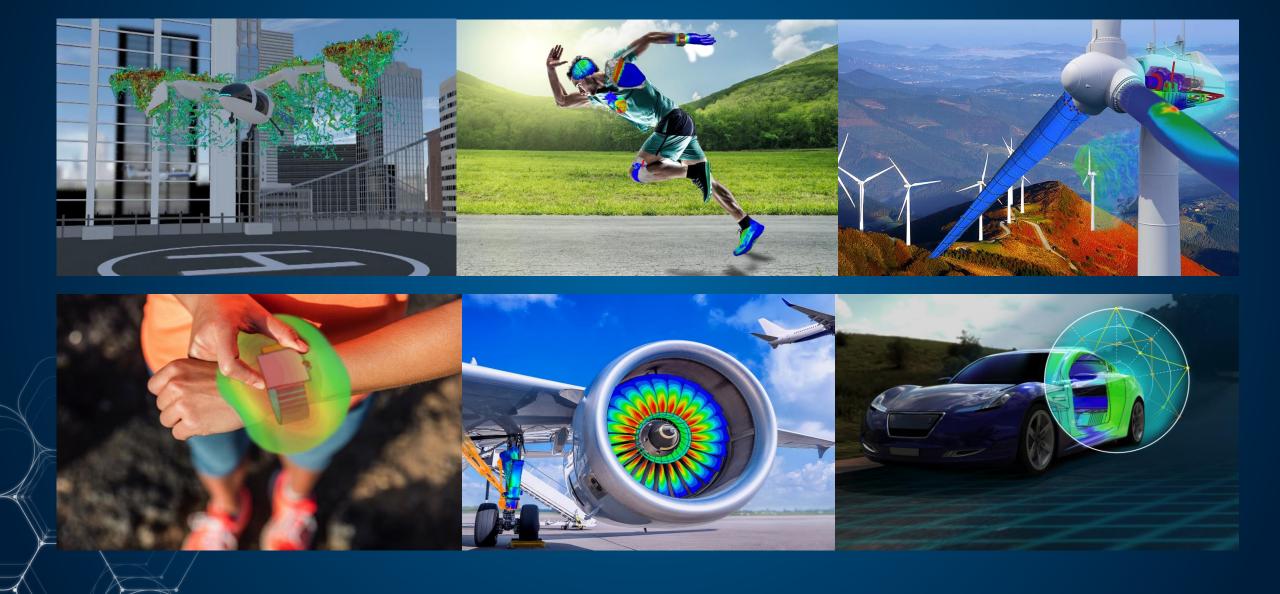
Additive Manufacturing



Virtual Reality



Simulation is Essential for Transformation



Transformation Requires Mindset Change







Leverage the Key Values of Simulation



Innovation

Optimization

Confidence











Design Space Exploration

Complexity Management



Costs

Time to Market

Failure

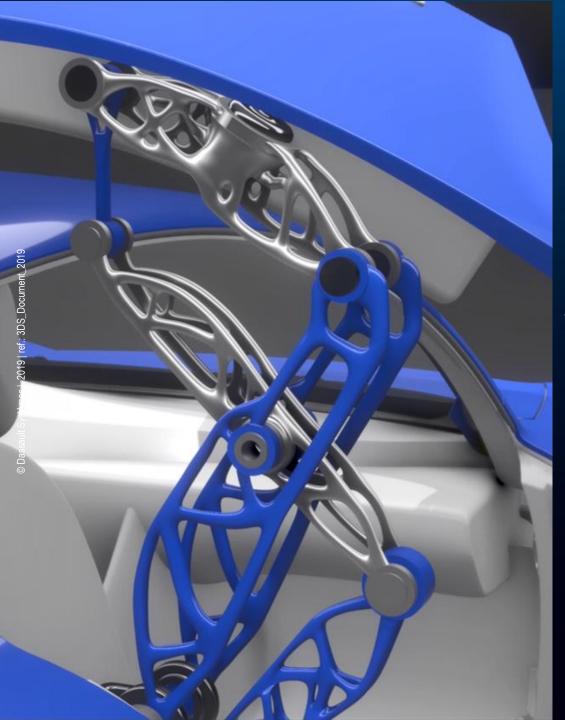
Risk



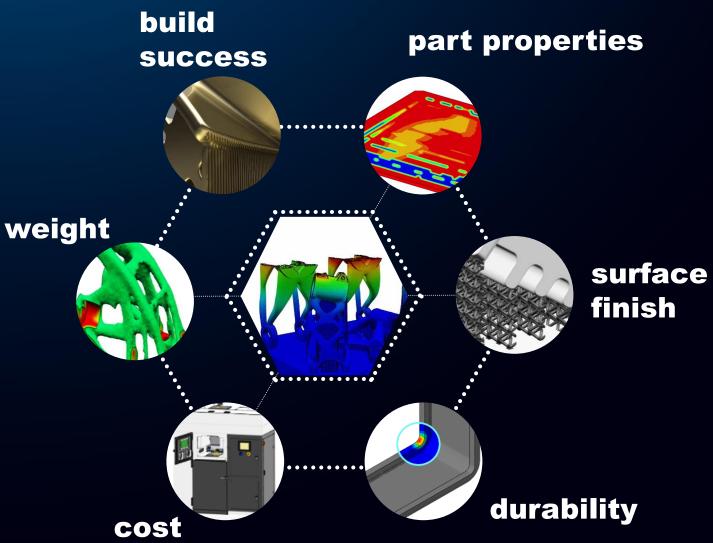








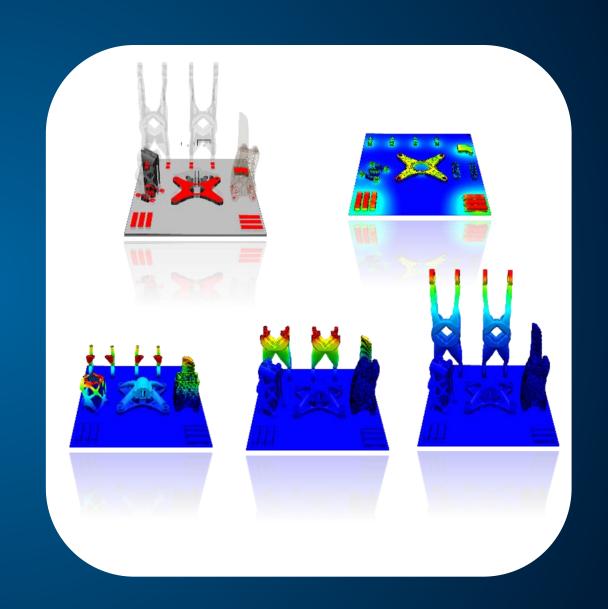
Additive Manufacturing

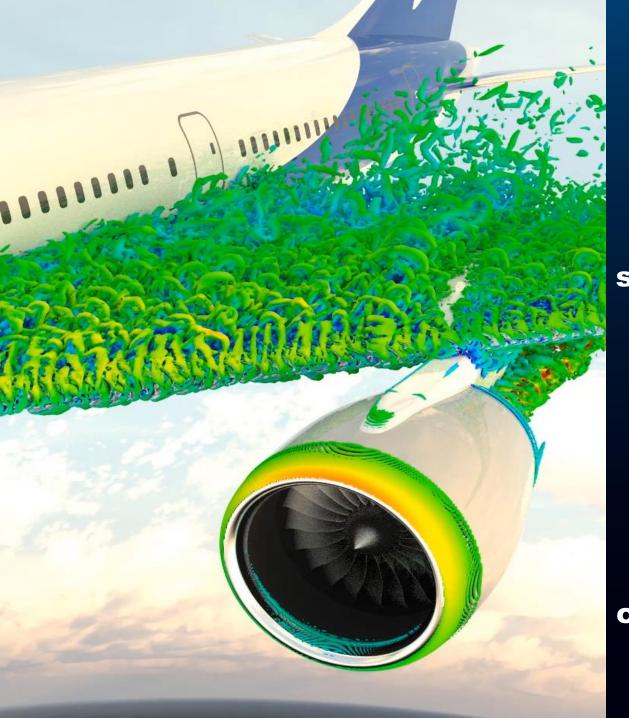




Additive Manufacturing | Compelling Values

- Complete and comprehensive additive workflow solution
- Optimize and re-toplogize parts specifically for additive manufacturing
- Virtually test complete manufacturing builds
- Leverage scalable, multiphysics technology to manufacturing specialist while providing full access to all simulation capabilities for in-service-testing.





Aerospace & Defense

performance communications

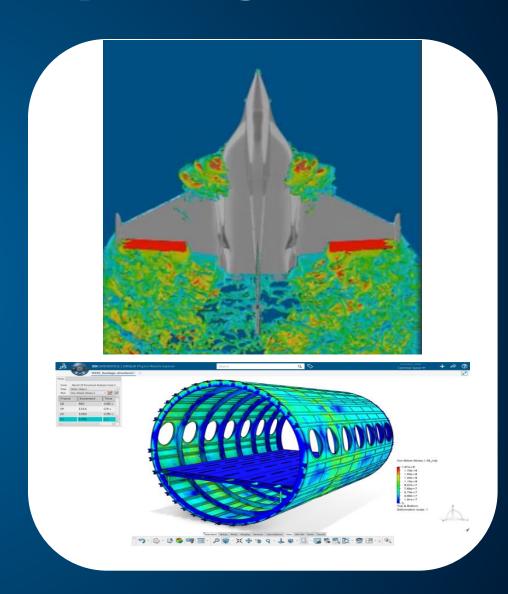


noise

DASSAULT SYSTEMES

Aerospace & Defense | Compelling Values

- ► Develop and virtually validate new concepts for aircraft systems early in the design process
- ► Ensure compliance to functional and safety standards
- ► Ensure digital continuity by seamlessly linking requirements to architecture to 3D design data to simulation results
- Leverage best in class project and product management tools to ensure teams collaboration, make new configures, track changes, manage tasks, etc.



BAE SYSTEMS







Aerospace & Defense



Collins Aerospace









Honeywell

KONGSBERG



Aerospace & Defense

THALES

GENERAL DYNAMICS

Baytheon

NORTHROP GRUMMAN



Industrial Equipment Engineering | Values

Drive Superior Performance with Simulation

True Collaborative Concurrent Engineering



Fast and Robust Product
Development



Performance Driven Design



Performance Targets Reached

Quality by Design





CATERPILLAR Kubota



Industrial Equipments



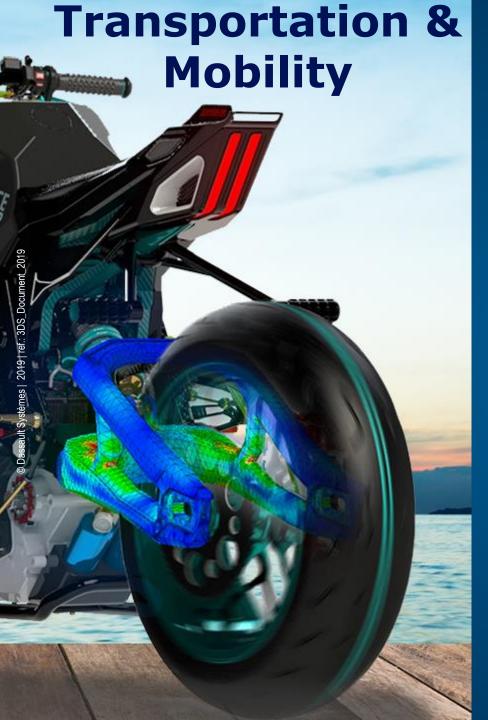
TEREX®



Parker VXAG



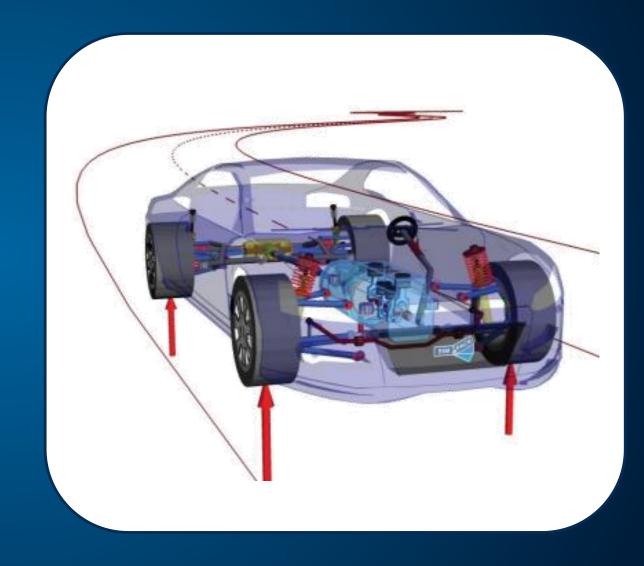






Transportation & Mobility | Compelling Values

- ► Reduce costs and development time
- Avoid warranty and reliability issues with detailed real-time simulation models
- ► Establish development process solutions with maximum efficiency and minimum costs
- ► Enable new development processes to support best in class innovative vehicle product engineering

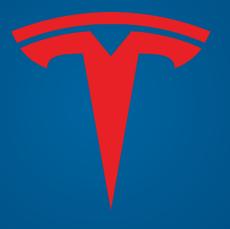








faurecia



Transportation & Mobility



Valeo



BOSCH

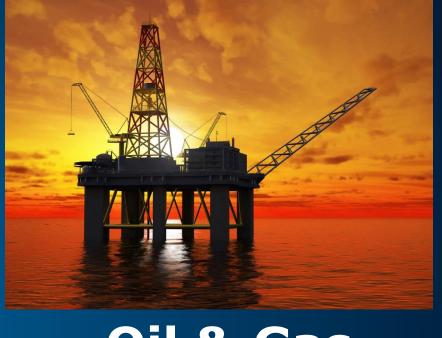


ارامکو السعودین Saudi Aramco

Chevron







Schlumberger

Oil & Gas







HALLIBURTON



SIEMENS

Griel

Ingenuity for life





Energy



GOLDWIND













ATKINS

SNC · LAVALIN





Construction

ARUP

DASSAULT SYSTEMES

SCALABILITY

Scalability

Scalable solutions to support the needs of the user



Guide design



Assess integrity and requirements

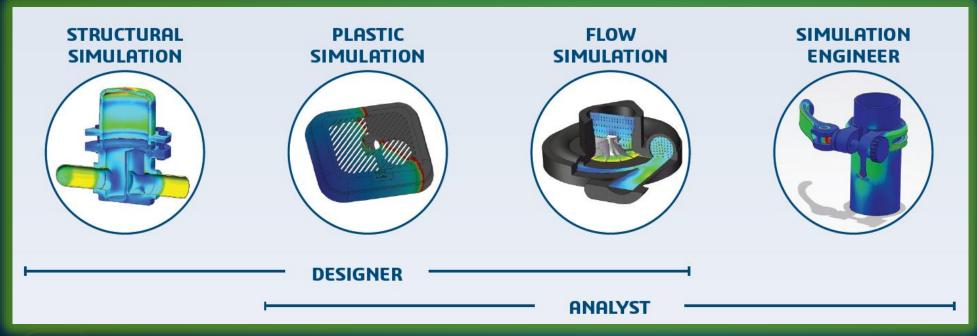


Validate and solve problem

From Designers & Engineers to Analysts

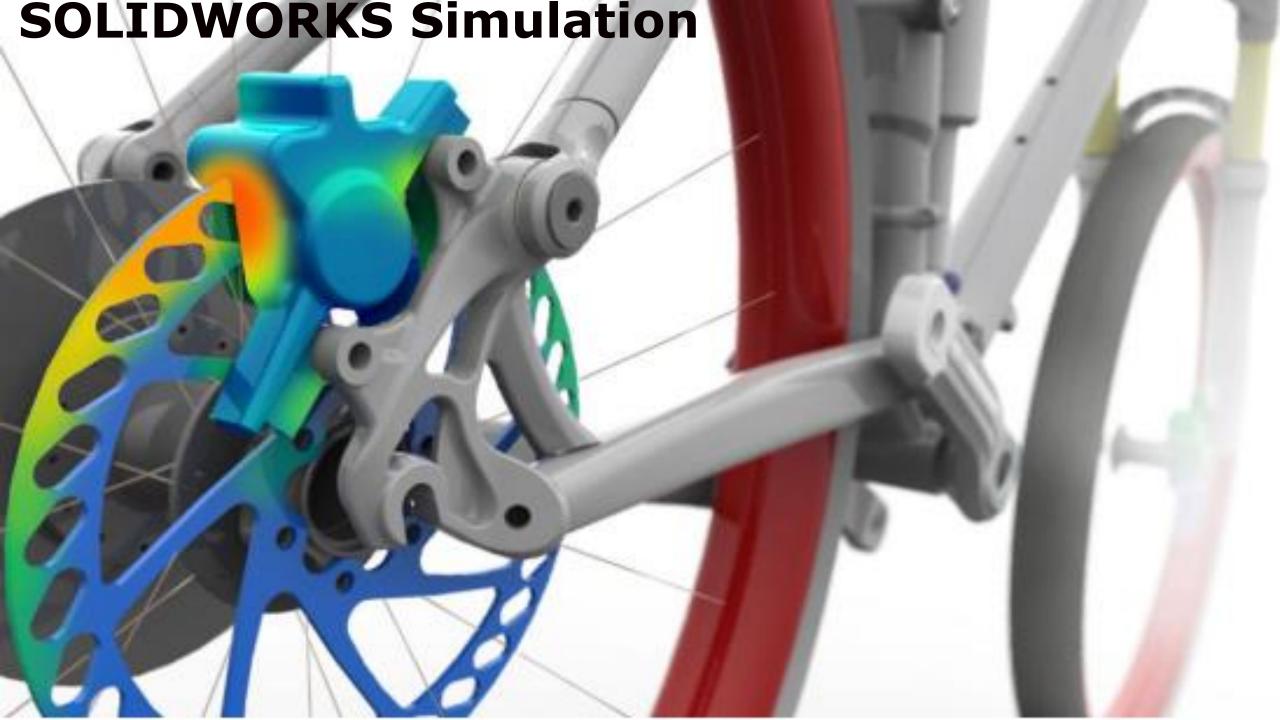


Complete Solidworks Portfolio

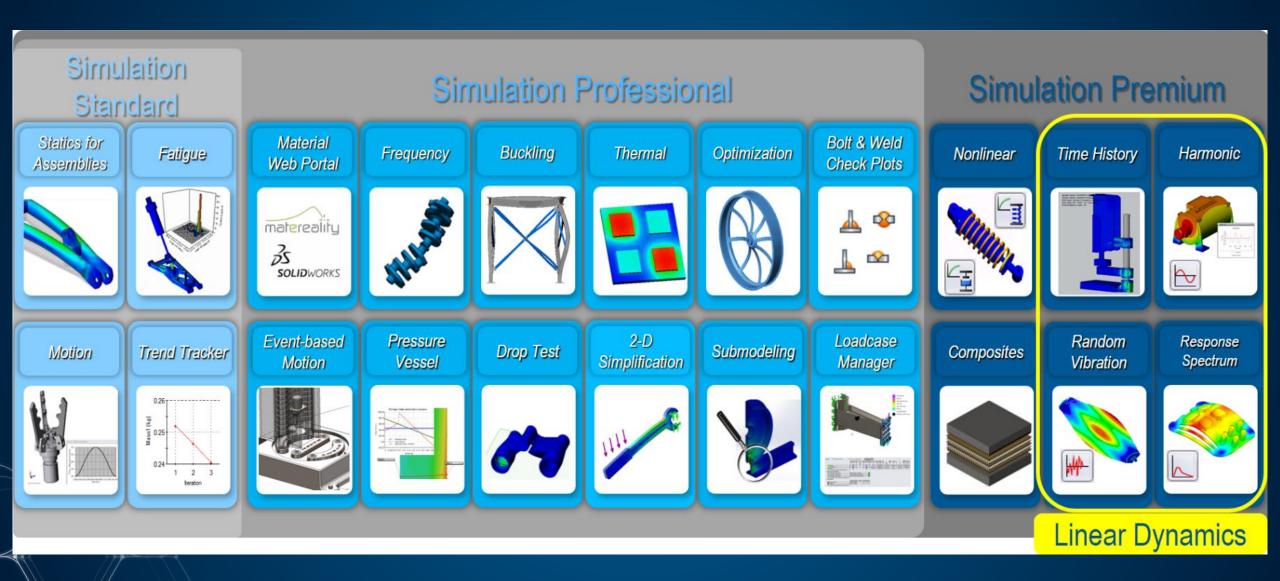


Mainstream Applications High-End Applications

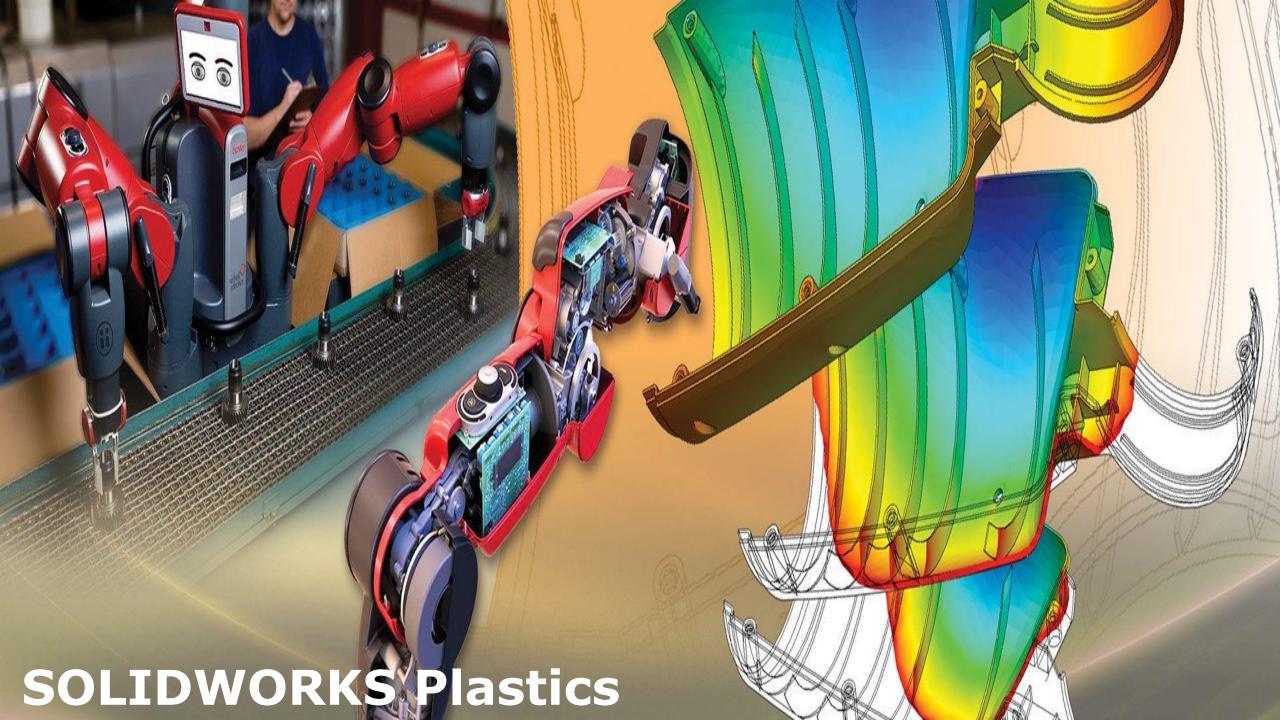




SOLIDWORKS Simulation







SOLIDWORKS Plastics

Plastics Standard Surface & Filling & Weldlines Short Shots

Airtraps

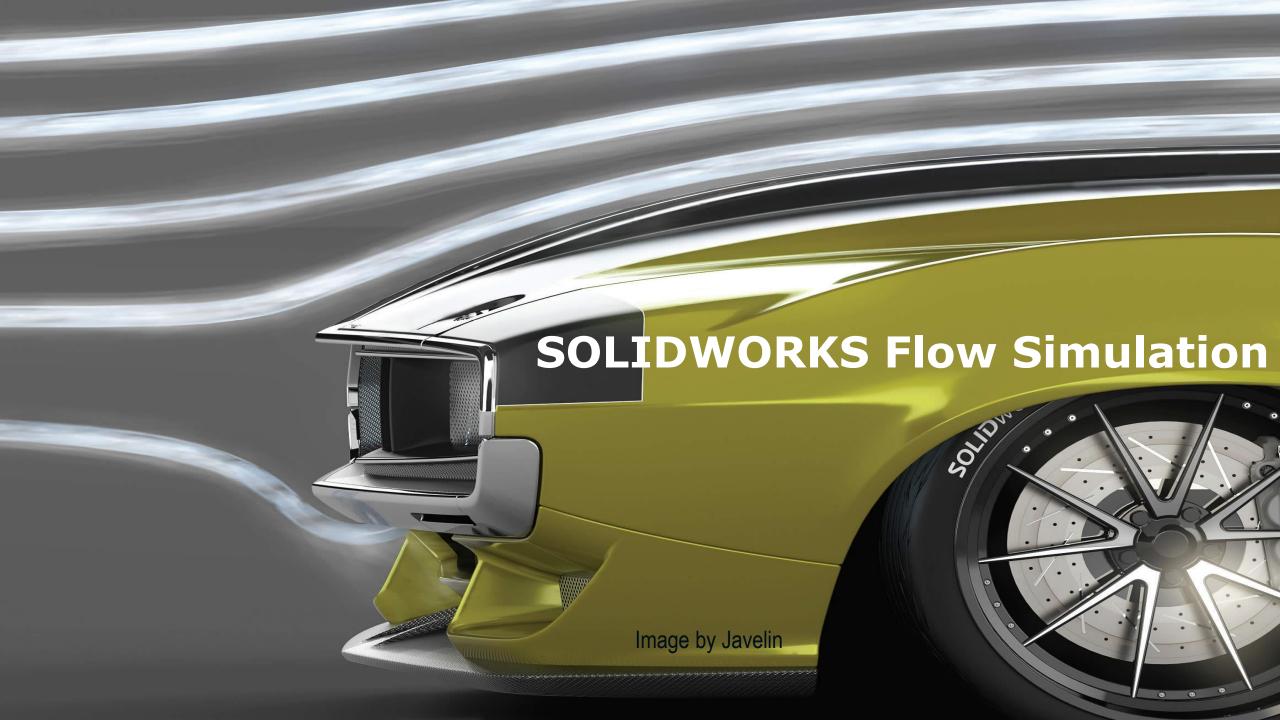
Sink Marks











SOLIDWORKS Flow Simulation

Flow Simulation











Joule

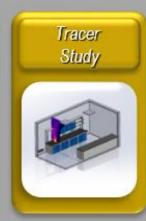
Heating



Electronic Cooling



HVAC



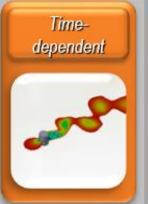


Internal &

External













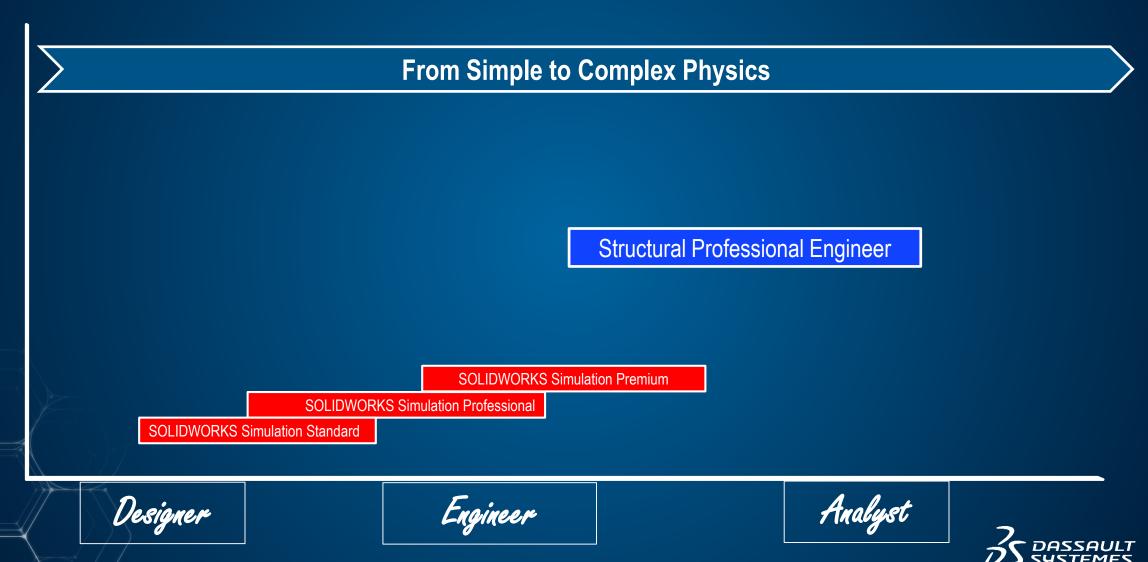
WHAT'S NEXT?





The Structural Simulation Landscape

Expanding SOLIDWORKS Simulation with SIMULIA



Structural Professional Engineer

Solving Complex Physics Faster with Confidence

Powerful

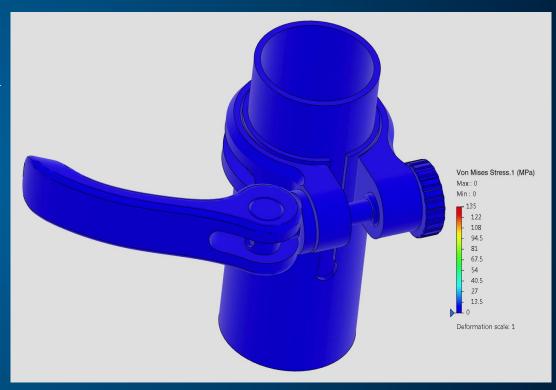
- Advanced & robust technology: non-linear contact & material models, meshing tools

▶ Connected

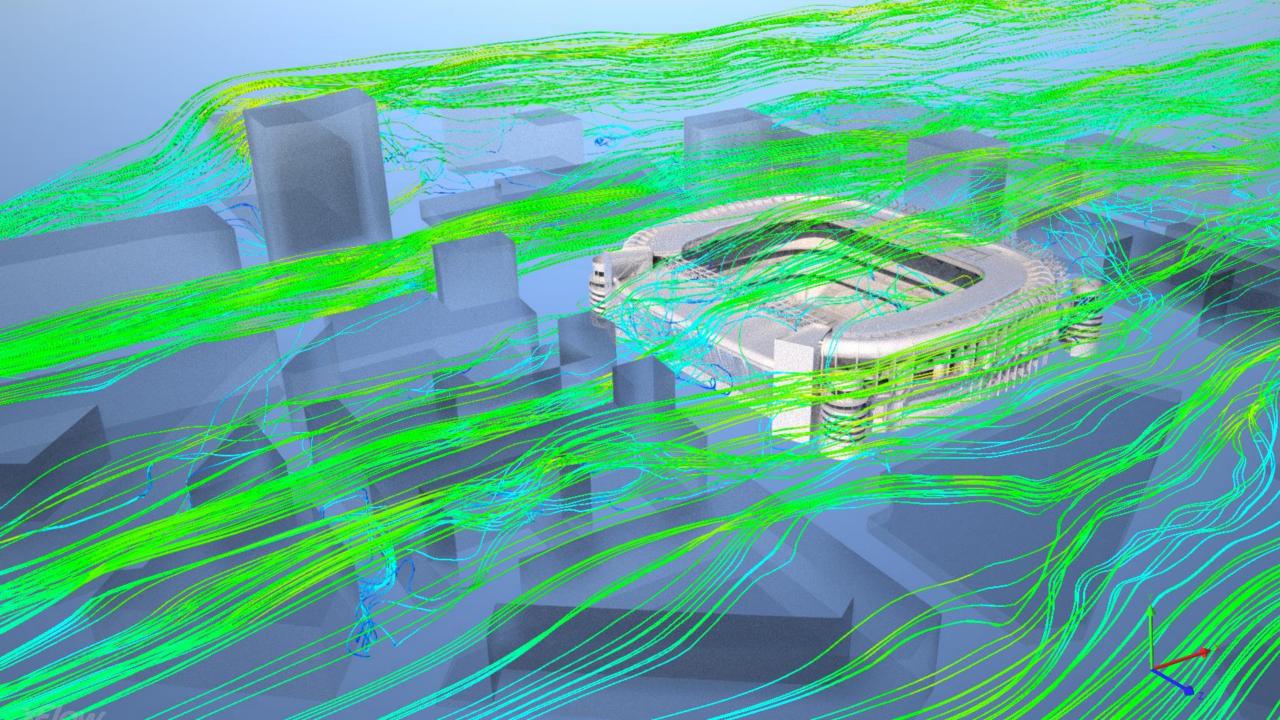
Automatically transfer SOLIDWORKS Simulation models, features and materials

▶ Cloud-based

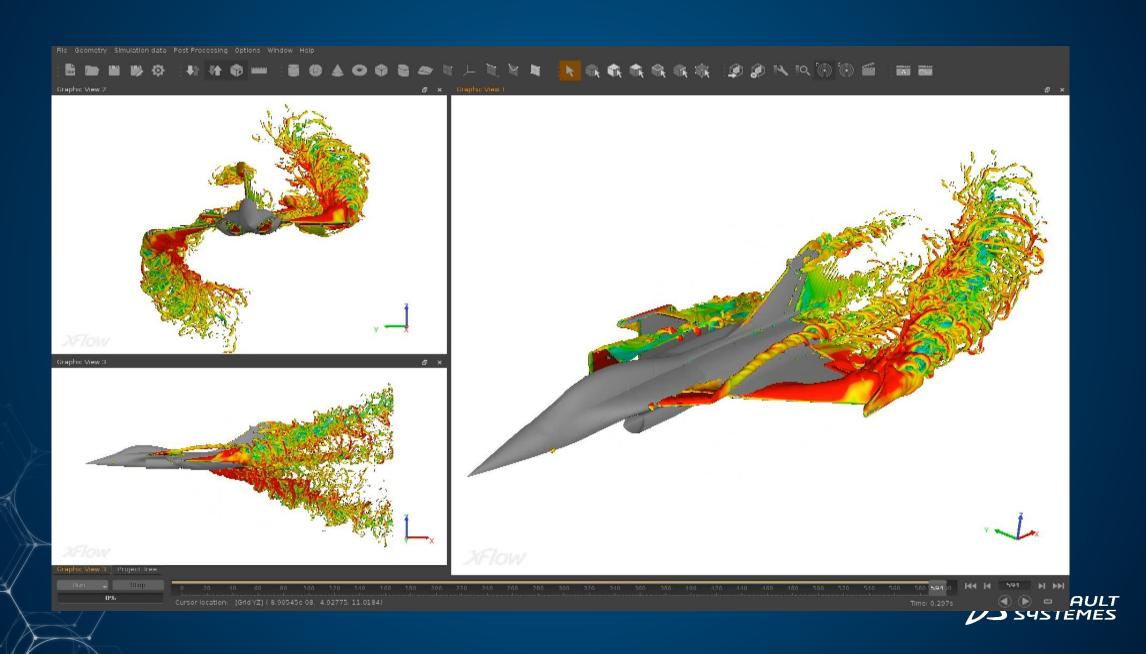
- Free-up local computer resources with high performance cloud computing
- Improve design decisions with easy communication and secure data traceability



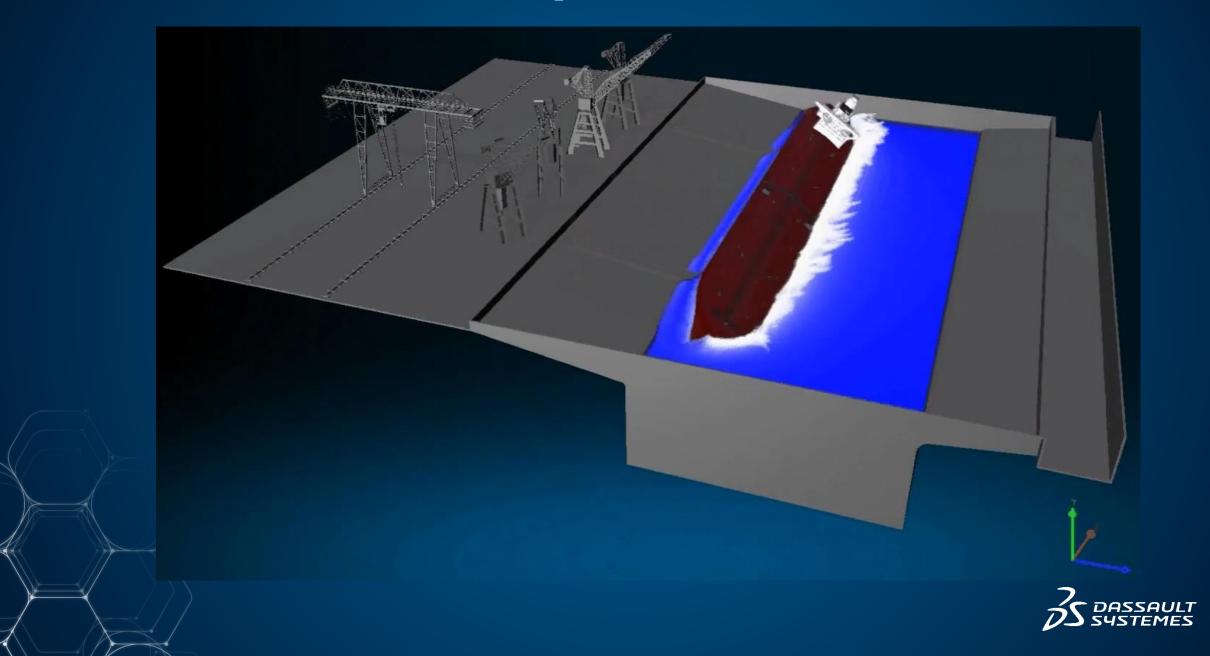




Fighter Jet spin maneuver



Ship Launch



3DEXPERIENCE On-Cloud Simulation



Ease of use

Smart applications to remove guesswork for optimized product design





Technology

Realistic simulation solutions in a unified environment



Integration

Seamless interoperability between CAD, CAE and PLM





Collaboration

Platform to facilitate collaboration across the extended enterprise



Scalability

Scalable solutions for all user skill levels





Productivity

Focus on engineering problems vs manual non-value-add tasks





On-Cloud

Minimize hardware and software costs

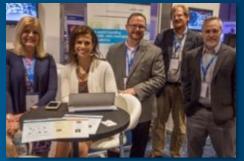
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Dassault Systemes simulation community to support you











Simulation for Product, Nature & Life

Global Local Presence

- 40+ Simulation
 Centers of Excellence
- 400+ Resellers
- Trusted Local Advisors

Growing Scientific Community

- 12 Industries
- Designers
- Engineers
- Academics
- Researchers
- Simulation Experts

Connected Partner Ecosystem

- 200+ Alliance Partners
- Complementary Software
- Components
- Hardware

Simulation Technology Leader

- Innovative Multiscale Multiphysics Solutions
- High-quality Products & Support
- Customer Satisfaction

