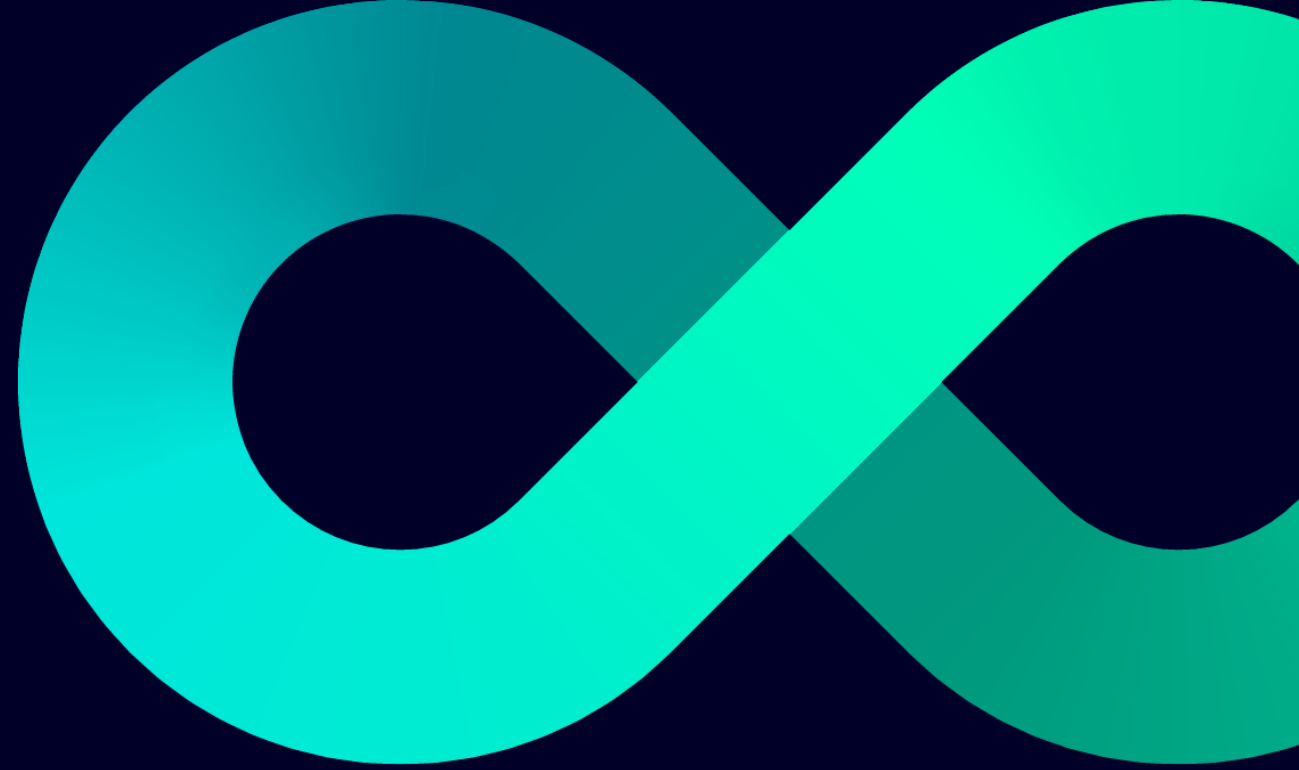


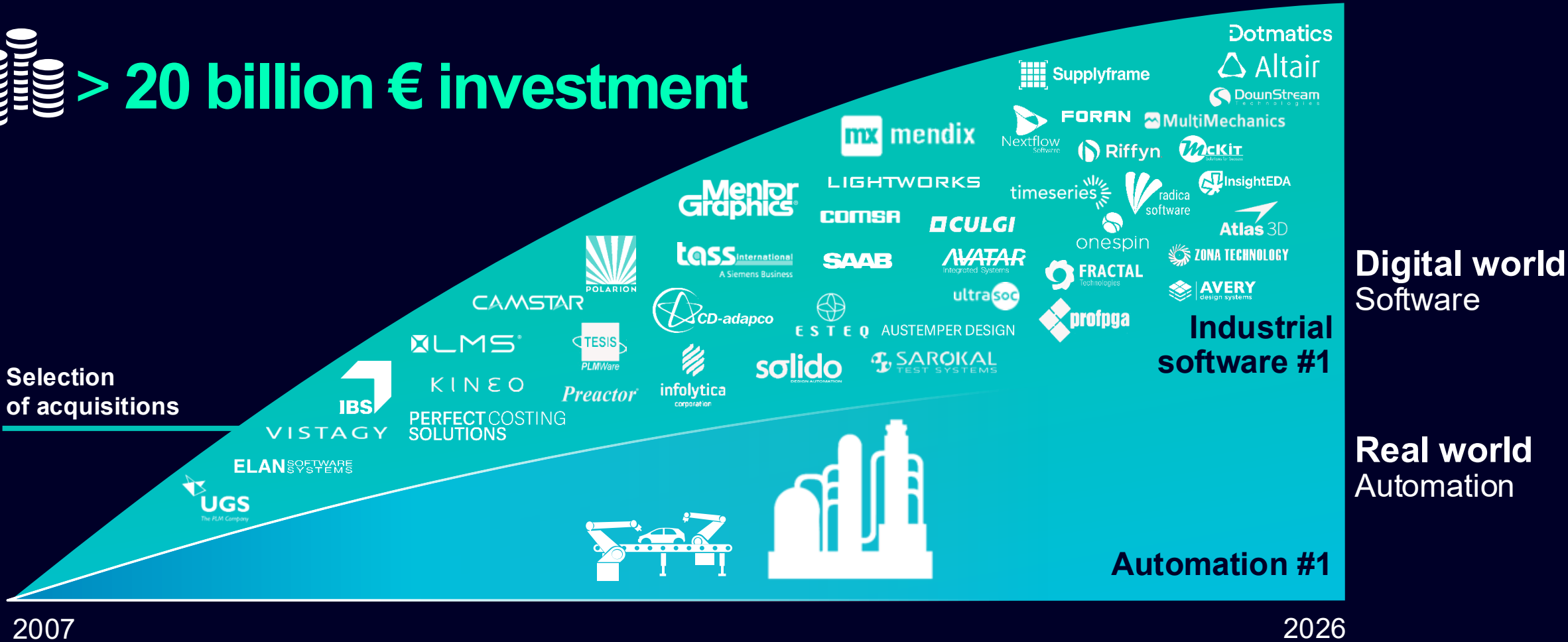


Simcenter Simulation Portfolio Overview & New Use Cases

Athanasios Besikiotis | Presales Solution Consultant

Combining the digital and real worlds for our customers since 2007

 **> 20 billion € investment**



Transform engineering with Simcenter



Comprehensive

Assess all aspects of multiphysics performance

Apply to all phases of development and usage



Intelligent

Rapidly generate and evaluate concepts with AI

Streamline and automate complex workflows



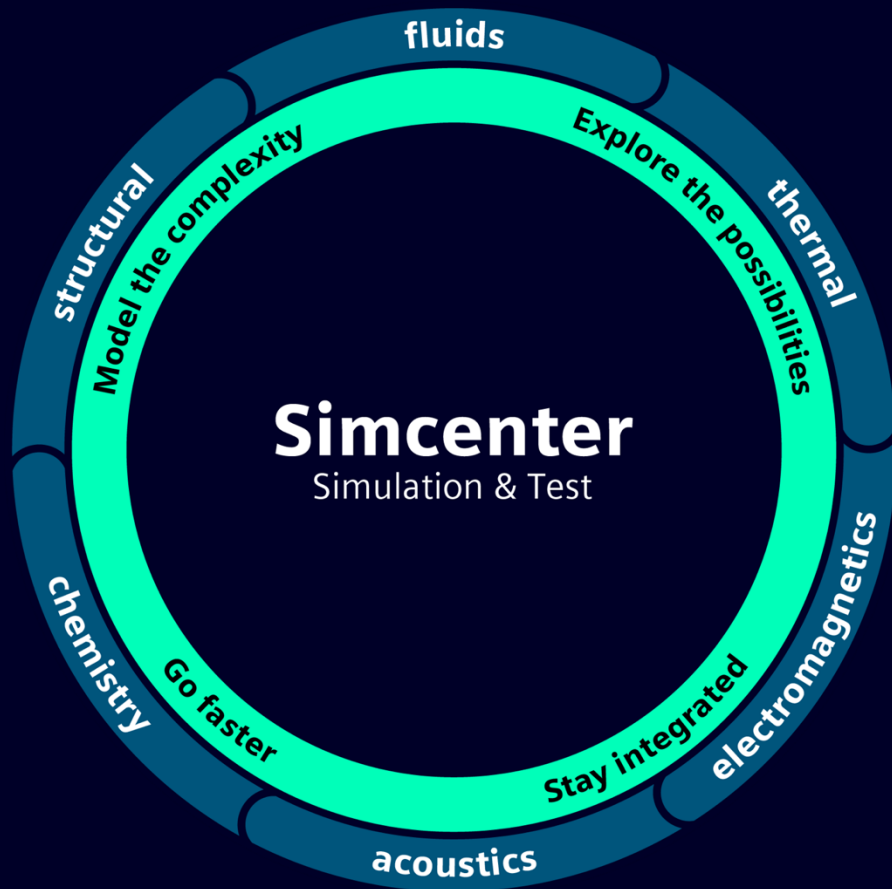
Adaptive

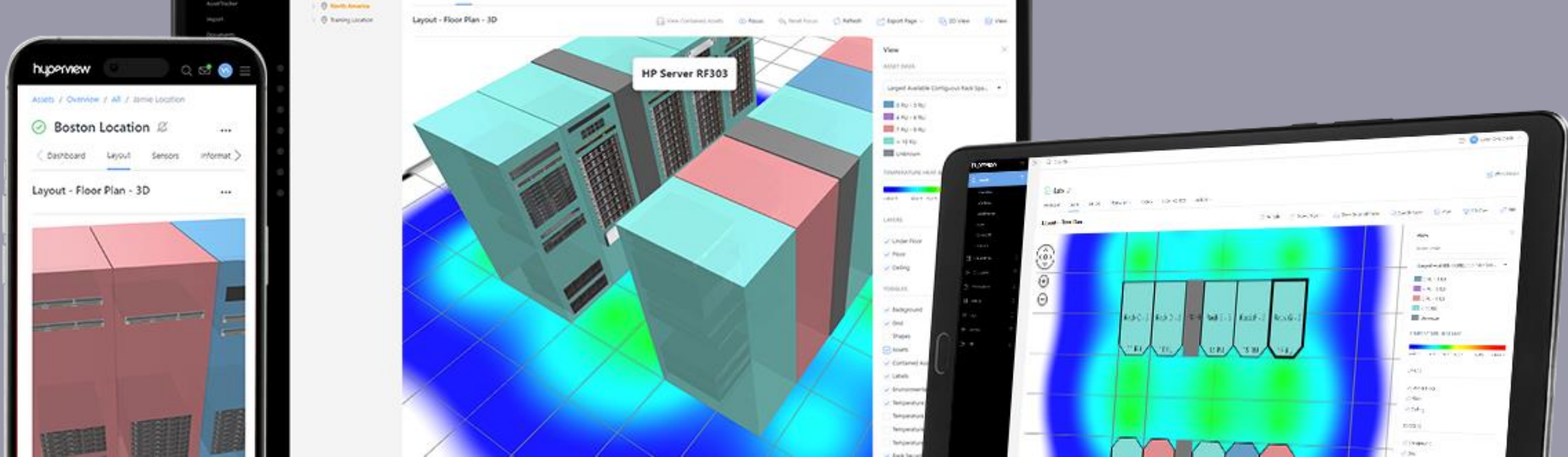
Scale and evolve resources to maximize agility

Integrate simulation and test into the digital thread

Siemens + Altair

Delivering a comprehensive portfolio for performance engineering





Simulation modeling and visualization

Create, manipulate, and visualize models, simulation results, and complex data sets

Simulation modeling and visualization

Create, manipulate, and visualize 3D geometric models, simulation results, and complex data sets.

Employ parametric modeling, mesh generation, advanced rendering, animation, and interactive visualization techniques with support for virtual and augmented reality.

Simcenter Hypermesh

High-performance, AI-integrated modeling, meshing and assembly for complex systems

- Streamlined, automated workflows for efficient model build and updates
- Consistent tools across geometry, mesh model assembly and solver preparation
- PCM connected processes that preserve configuration and maintain interoperability with all major solvers for flexible engineering programs
- Extend and integrate through Python APIs

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Simcenter Hyperview

Advanced post-processing and visualization for simulation and CAE analysis

- Rapidly preprocesses CAE results and produces visualizations**
- Produces annotated animations, renders, plots**
- Create reports with compact 3D models for presentation and collaboration**
- Synchronizes data with animations, plots, tables and more**
- Use industry tools and workflows or custom built automations**
- Supports third-party software***
 - * Hypermesh, Abaqus, LS-DYNA, Nastran, Marc2010, Adams, ANSYS and more

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Simcenter Hypergraph

Clearly translate data into information and knowledge

- Study data via statistics, dashboards, and graphs
- Use math functions from a library or create an algorithm
- Automate annotated plot or visualization creation
- Compare and analyze data from multiple instances
- Build interactive visualizations and analytical models
- Automate report generation with 2D/3D visualizations

Simcenter Simlab

AXIAL FLUX MACHINE : MULTIPHYSICS ANALYSIS
Thomas Balthus

Multiphysics simulation for electronic system design

- Validate designs for structural, thermal, solder fatigue, shock, warpage, vibration, power conversion, and more
- Local or cloud-based automated workflow
- As powered optimization and electrical + mechanical simulations
- Explores and results design changes with live syncing to popular parametric CAD systems
- Bi-directional CAE coupling for geometry modifications, test variants, and assembly updates

18 | <https://www.siemens.com/pressroom/2024/04/02>

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Simcenter Hypermesh NVH



- Full vehicle NVH simulation for optimum vehicle design support
- Generates physical root cause understanding
- Highly automated
- Directly simulates customer NVH experience
- Integrated visualization
- Complete set of NVH tools – low frequency and mid-frequency
- Enables multiple discipline modeling and optimization framework

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Siemens Inspire



Transform design and manufacturing with simulation-driven insights

Advanced hybrid modeling

Physics-based design exploration

Performance-driven optimization and manufacturability

10 | Inspire 2021 | © Siemens 2021 | Path to Digital Enterprise | 1000000000

SIEMENS

Simcenter Hypermesh



High-performance, AI-integrated modeling, meshing and assembly for complex systems

Streamlined, automated workflows for efficient model build and updates

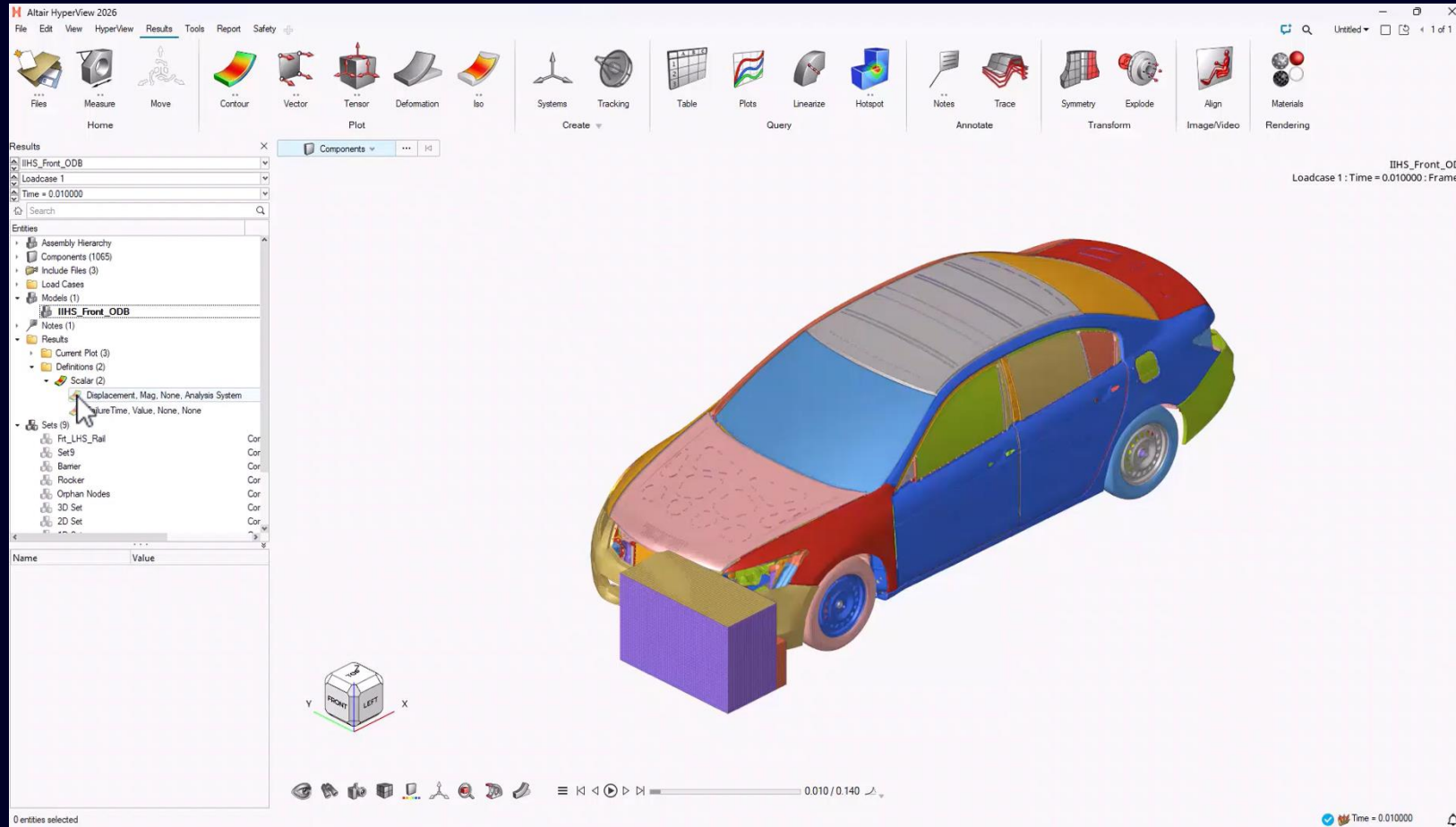
Consistent tools across geometry, mesh model assembly and solver preparation

PDM-connected processes that preserve configuration and metadata

Interoperable with all major solvers for flexible engineering programs

Extend and integrate through Python APIs

Simcenter Hyperview



Advanced post-processing and visualization for simulation and CAE analysis

Rapidly postprocess CAE results and product visualizations

Produce annotated animations, renders, plots

Create reports with compact 3D models for presentation and collaboration

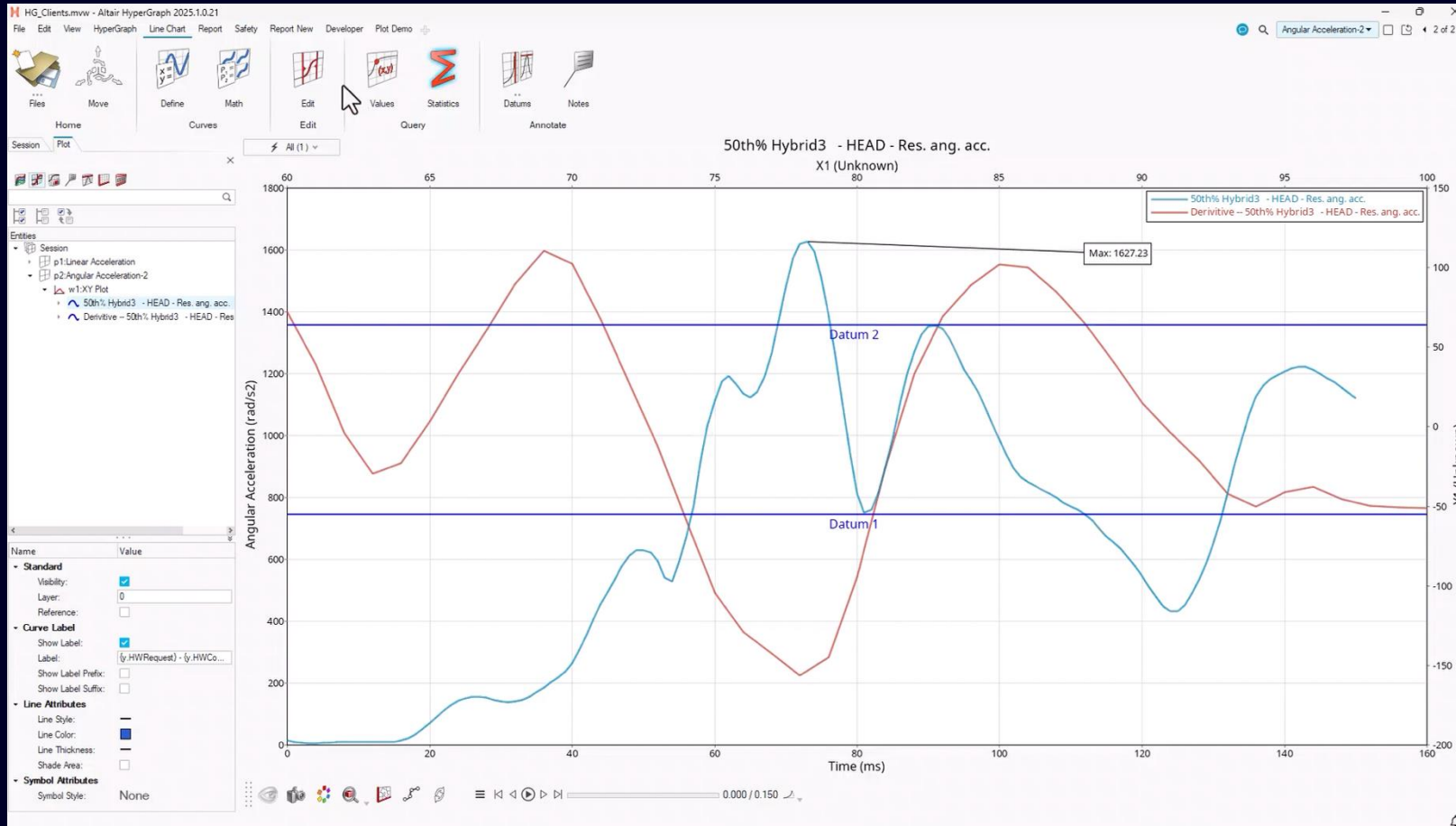
Synchronize data with animations, plots, tables and more

Use industry toolkits and workflows or custom-built automations

Supports third-party solvers*

* Abaqus, Ansys, LS-Dyna, Nastran, Pam-Crash, Adams, ADVC, and more

Simcenter Hypergraph



Clearly translate data into information and knowledge

Study data via statistics, dashboards, and graphs

Use math functions from a library or create an algorithm

Automate annotated plot or visualization creation

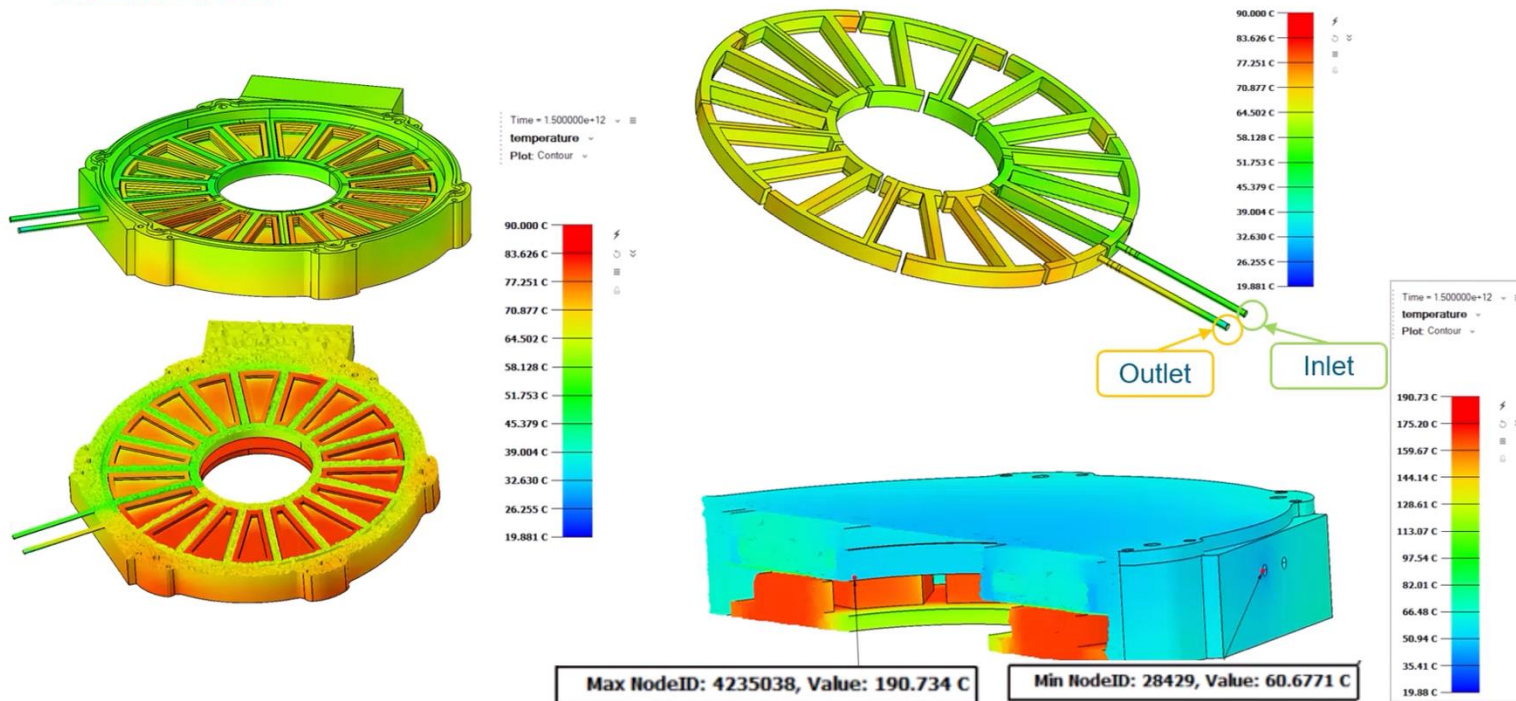
Compare and analyze data from multiple sources

Build interactive visualizations and analytical models

Automate report generation with 2D/3D visualizations

AXIAL FLUX MACHINE : MULTIPHYSICS ANALYSIS

Thermal Results



Multiphysics simulation for electronic system design

Validate designs for structural, thermal, solder fatigue, shock, warpage, vibration, power control, and more

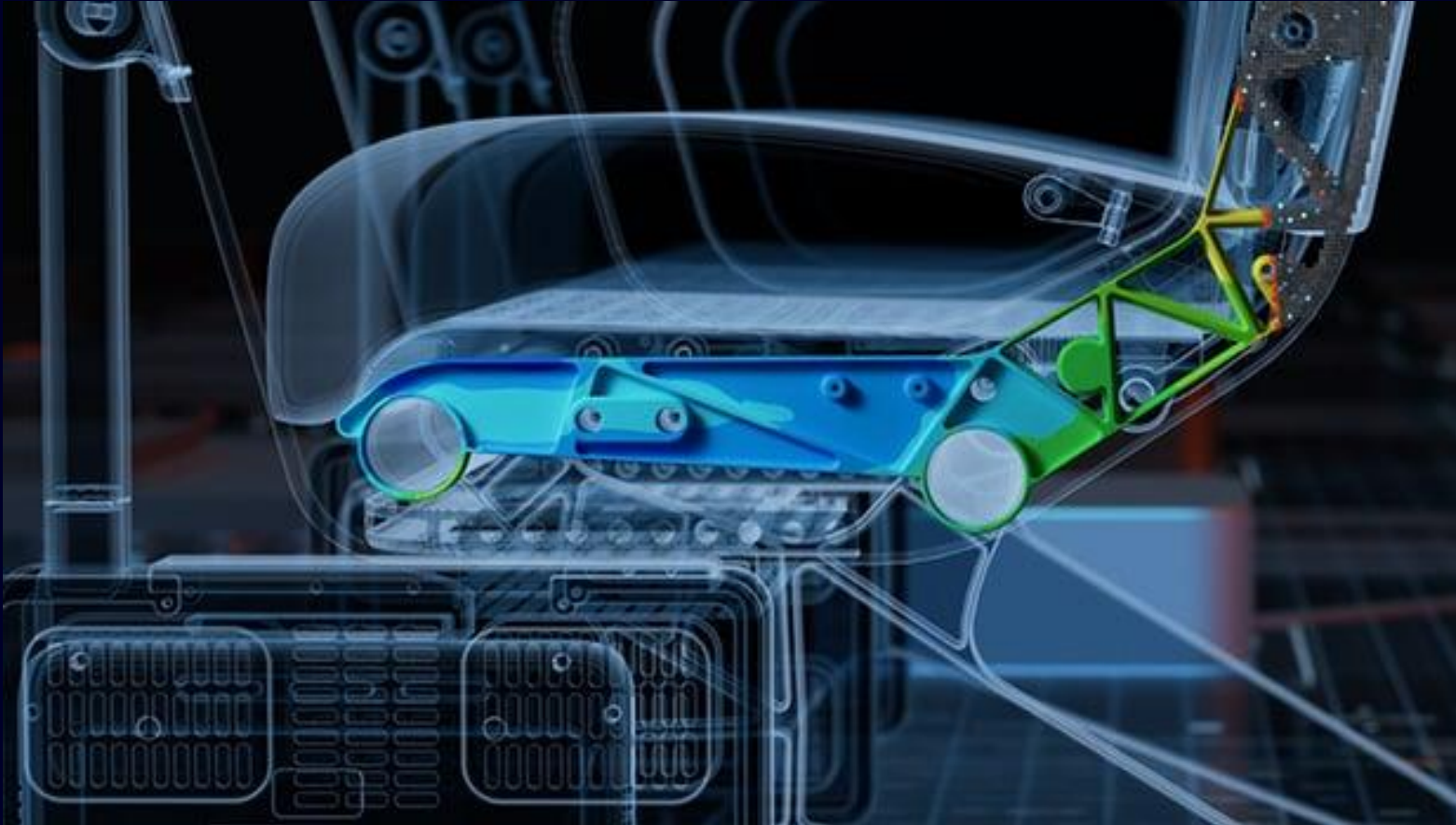
Local or cloud-based automated workflow

AI-powered optimization and electrical + mechanical co-simulations

Explore and evaluate design changes with live syncing to popular parametric CAD systems

Bi-directional CAD coupling for geometry modifications, part variants, and assembly updates

Simcenter Hypermesh NVH



Full vehicle NVH simulation for upfront vehicle design support

Generates physical root cause
understanding

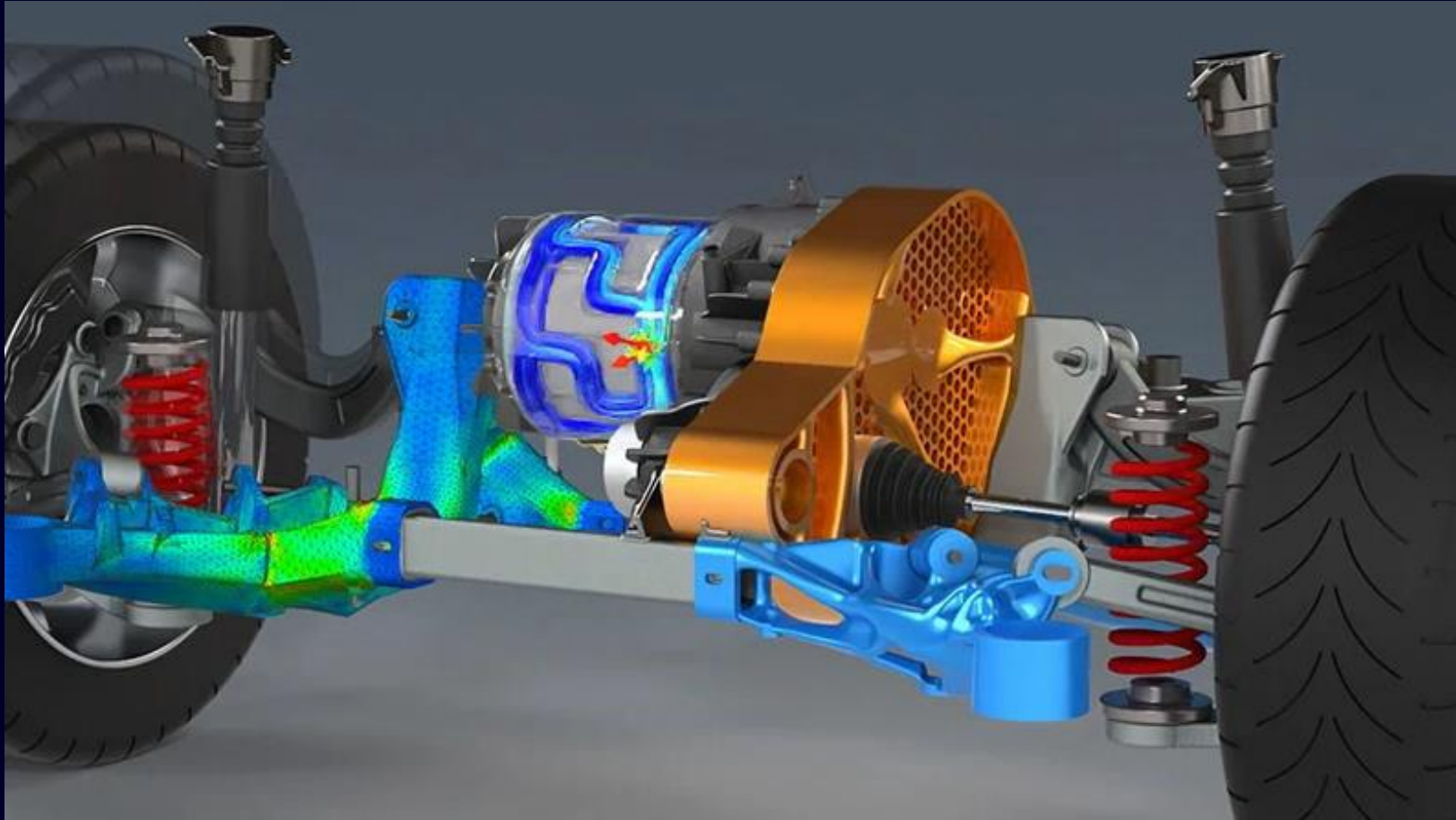
Highly automated

Directly simulates customer NVH
experience

Integrated visualization

Complete set of NVH tools – low
frequency and mid-frequency

Enables multiple discipline modeling
and optimization framework

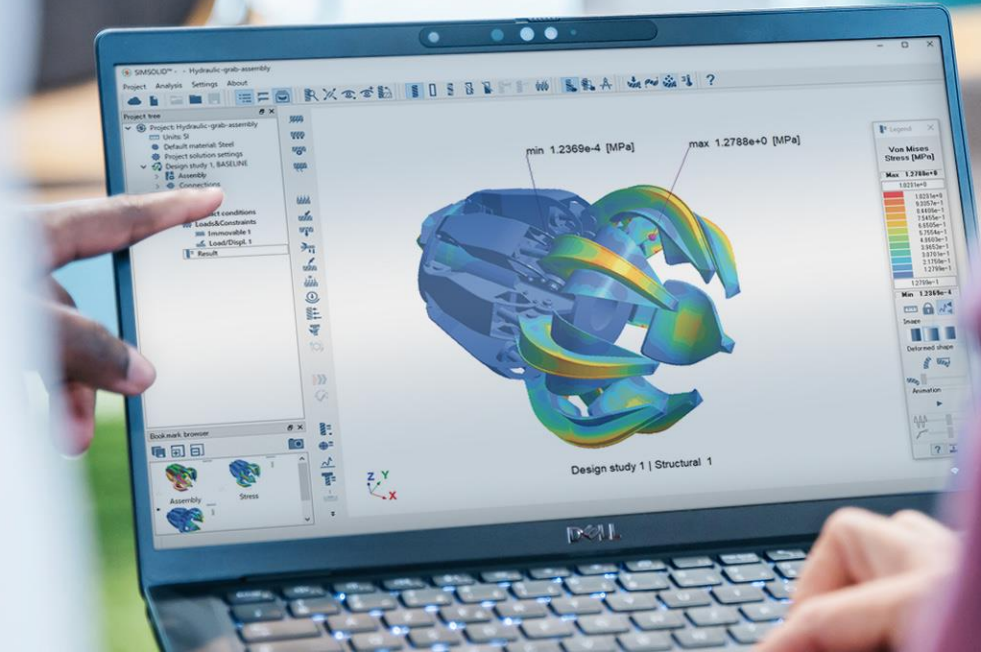


Transform design and manufacturing with simulation-driven insights

Advanced hybrid modeling

Physics-based design exploration

Performance-driven optimization and manufacturability



Mechanical and manufacturing simulation

Predict mechanical performance across multiple disciplines using computer-aided engineering (CAE)

Mechanical and manufacturing simulation

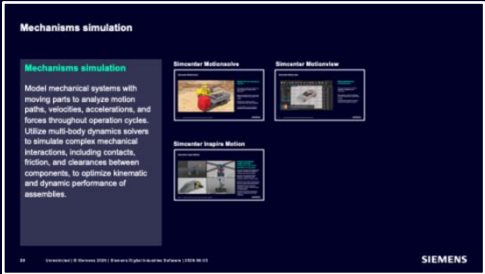
Mechanical and manufacturing simulation

Design, optimize, and enhance product performance to reduce costs, mitigate risks, and ensure safety. Evaluate stress, strain, deformation, vibration, and noise, predict potential failure mechanisms, estimate lifespan and evaluate safety. Evaluate part quality and optimize manufacturing process parameters.

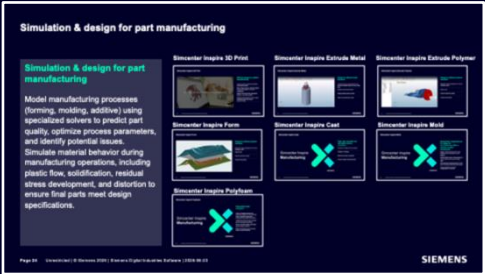
Structures



Mechanisms



Simulation and design for part manufacturing



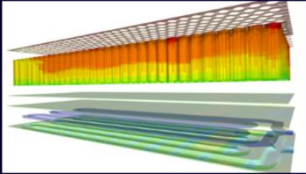
Structures simulation

Structures simulation

Analysis of how physical structures respond to loads, stresses, and vibrations to predict deformation, stress distribution, and failure points. Employs linear and non-linear solvers to evaluate structural integrity for static, dynamic, and fatigue loading scenarios, incorporating material models ranging from simple elastic to complex composite behaviors.

Simcenter Optistruct

Simcenter Optistruct



Leverage multiphysics and multi-disciplinary product design, simulation and optimization

- One model, one solver methodology
- Enhance designs for strength, weight, manufacturability, etc.
- Customizable, streamlined workflows
- Open architecture connects to third-party systems and pre-built interfaces with popular CAE tools

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Simcenter Simsolid

Simcenter Simsolid



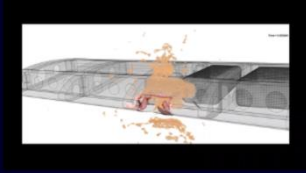
Multidisciplinary analysis for rapid design iterations

- Conduct structural, thermal dynamics and fatigue analysis
- 25 to 100 times faster than traditional FEA tools
- No CAD cleanup or meshing
- Simulation for all

SIEMENS

Simcenter Radioss

Simcenter Radioss



Crash and safety dynamic analysis

- Open platform structural solver for crash, impact, blast and other nonlinear scenarios
- Community powered, industry driven
- Integrated solver compatibility
- Scalable performance, AI-driven innovation

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Simcenter Hyperlife

Simcenter Hyperlife

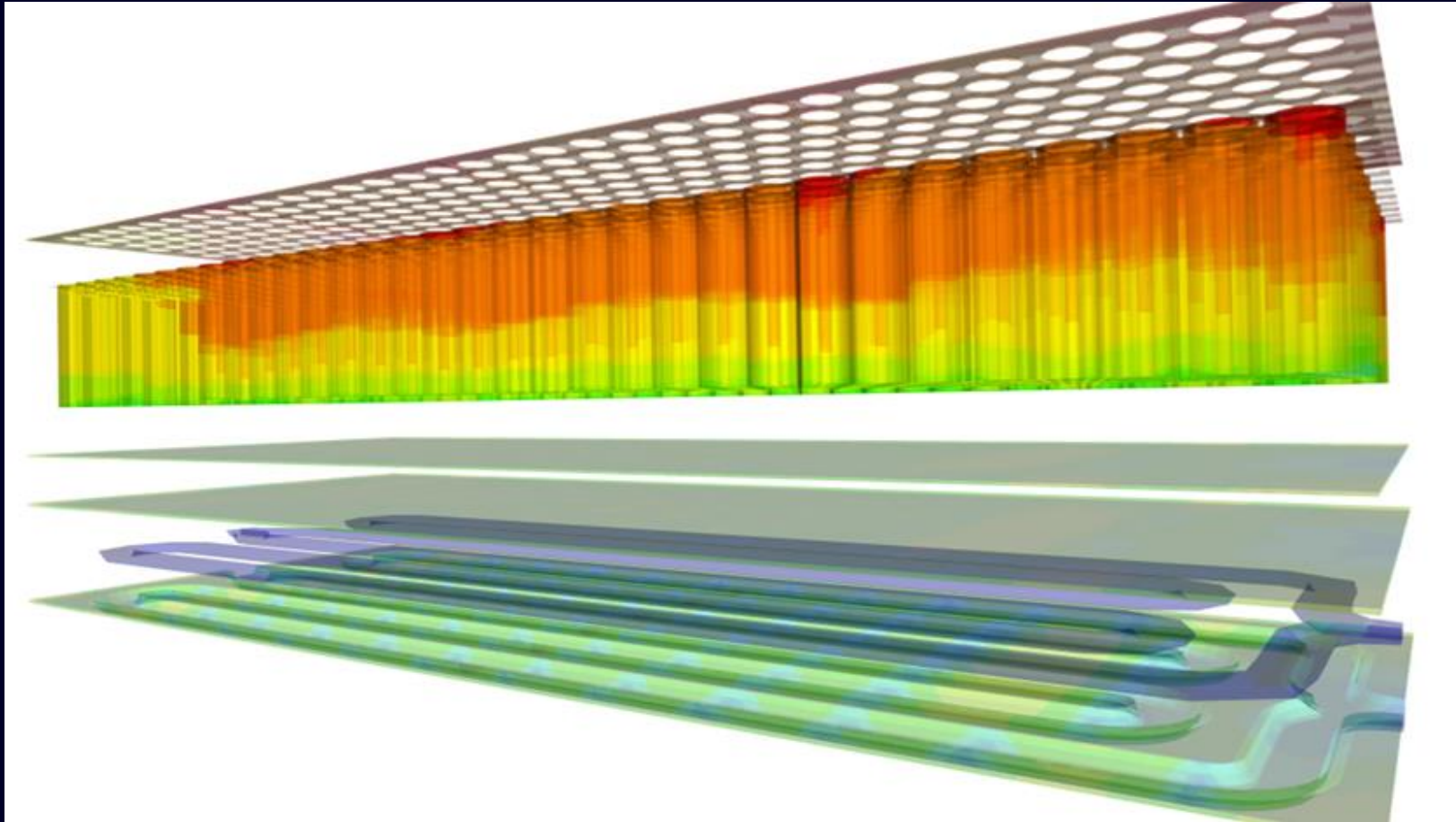


Simulate fatigue and crack growth for durability purposes

- Setup complex fatigue models
- Streamlined and open workflows
- Ensure product life and warranty

SIEMENS

Simcenter Optistruct



Leverage multiphysics and multi-disciplinary product design, simulation and optimization

One model, one solver methodology

Enhance designs for strength, weight, manufacturability, etc.

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Simcenter Simsolid



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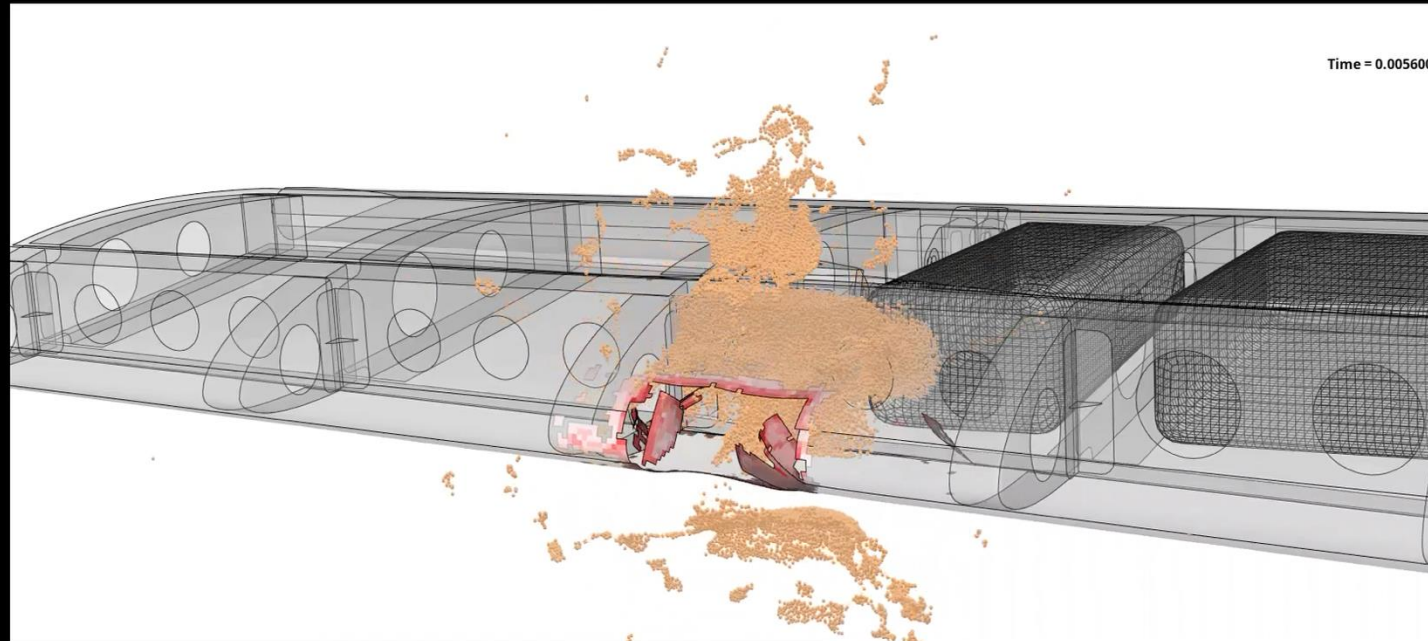
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Simcenter Radioss



Crash and safety dynamic analysis

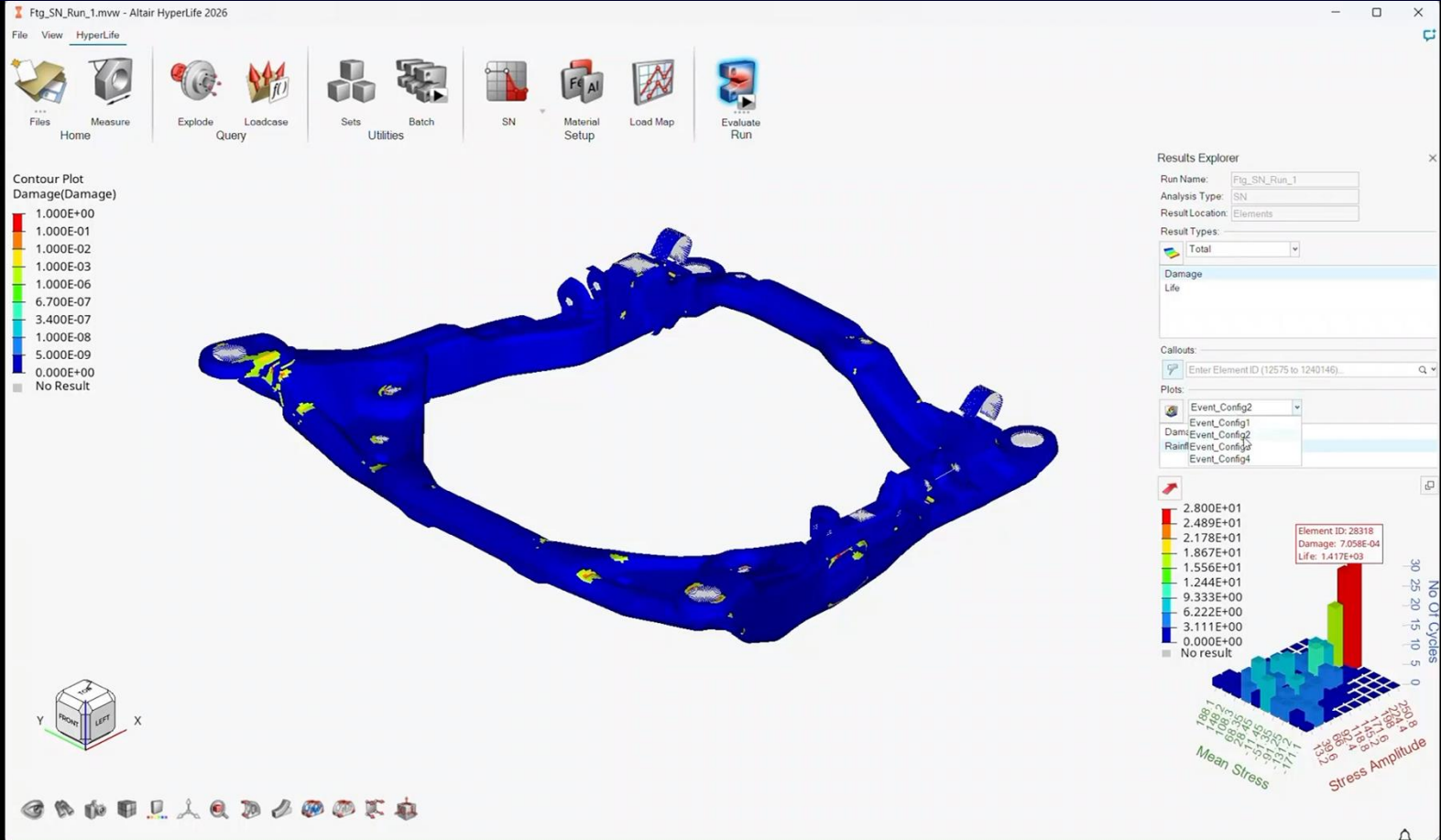
Open-platform structural solver for crash, impact, blast and other nonlinear scenarios

Community powered, industry driven

Integrated solver compatibility

Scalable performance, AI-driven innovation

Simcenter Hyperlife



Simulate fatigue and crack growth for durability purposes

Setup complex fatigue models

Streamlined and open workflows

Ensure product life and warranty

Mechanisms simulation

Mechanisms simulation

Model mechanical systems with moving parts to analyze motion paths, velocities, accelerations, and forces throughout operation cycles. Utilize multi-body dynamics solvers to simulate complex mechanical interactions, including contacts, friction, and clearances between components, to optimize kinematic and dynamic performance of assemblies.

Simcenter Motionsolve



Breathe life into mechanical systems

- Gain deeper insight into complex, real-world operating conditions before deployment
- Reduce development time and de-risk validation through earlier system-level insight
- Broaden your model's scope by incorporating multi-domain simulation
- Increase efficiency and consistency with tailored, automated workflows

SIEMENS

Simcenter Motionview



Where systems-level modeling begins

- End-to-end solution for multibody simulation, visualization and optimization
- Build systems, preserve knowledge, automate model build, simulate & post process
- Comprehensive solution for Vehicle dynamics & durability simulations

SIEMENS

Simcenter Inspire Motion



Analyze and optimize system functional performance with speed, flexibility, and accuracy

- One user, two personas: Designer and Analyst, for freedom and flexibility in modeling and analysis reactivity
- Automatic CAD geometry feature detection, for expression-based parametric points for building models
- Rapid flex body creation with advanced flex body contact stress determination
- Integrated DOE and mechanical optimization studies, strength analysis, and highlighting
- Powered by Simcenter MotionSolve engine for robustness and solution confidence

SIEMENS



Breathe life into mechanical systems

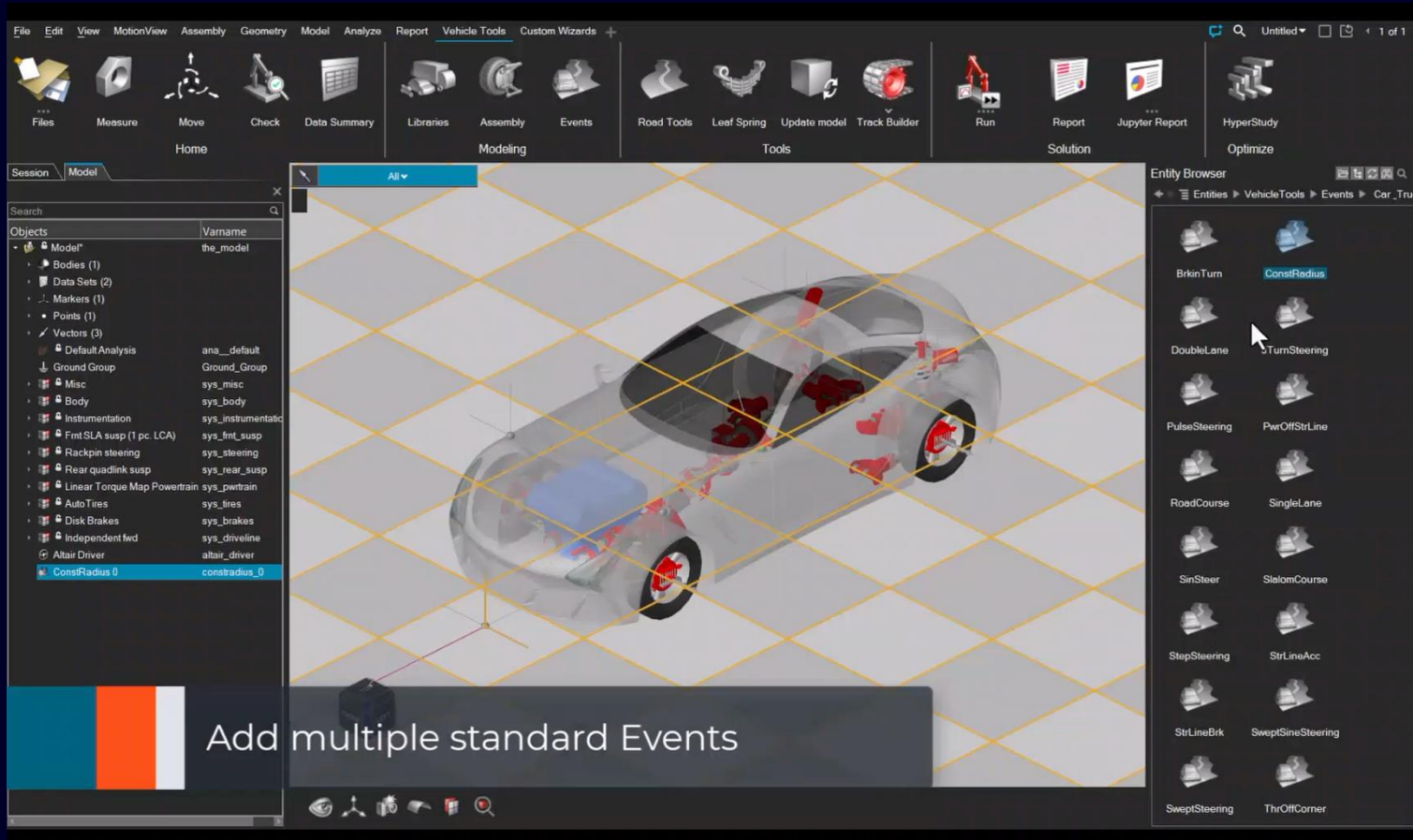
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Simcenter Motionview



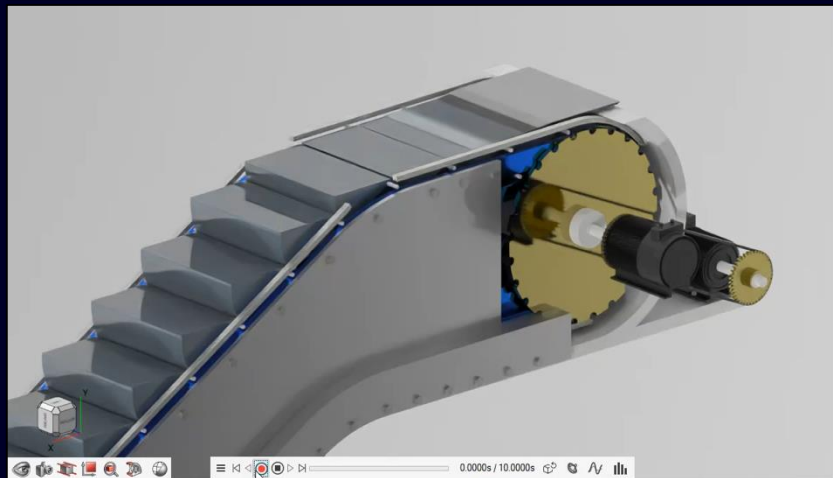
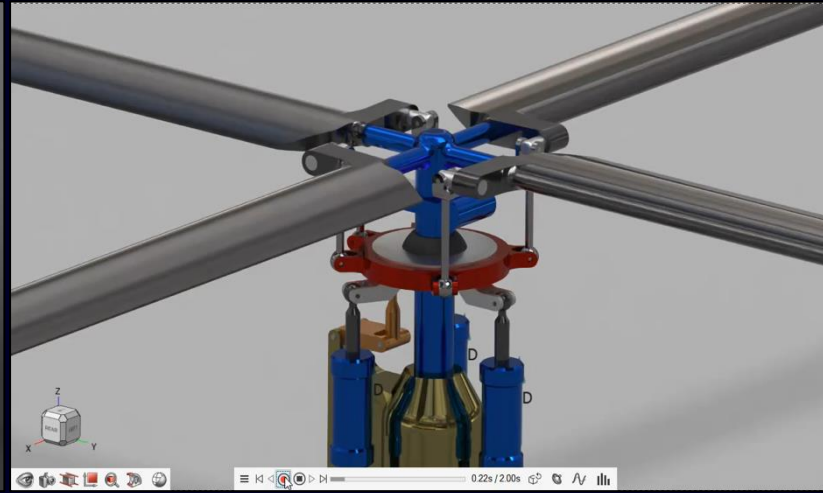
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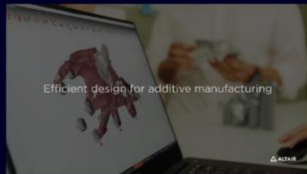
Simulation & design for part manufacturing

Simulation & design for part manufacturing

Model manufacturing processes (forming, molding, additive) using specialized solvers to predict part quality, optimize process parameters, and identify potential issues. Simulate material behavior during manufacturing operations, including plastic flow, solidification, residual stress development, and distortion to ensure final parts meet design specifications.

Simcenter Inspire 3D Print

Simcenter Inspire 3D Print



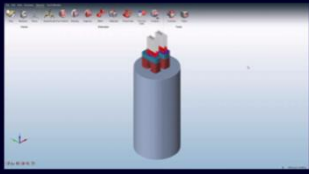
Efficient design for additive manufacturing

- Create, study and optimize additive manufactured parts
- Easy 5-step process to identify defects to guide part design or process modification
- Single environment from generative design to manufacturability
- Optimize part supports, reduce waste, fix defects early and reduce postprocessing

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Simcenter Inspire Extrude Metal

Simcenter Inspire Extrude Metal



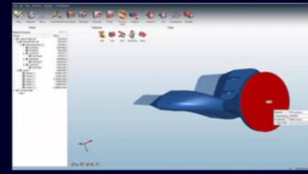
Design for efficient metal extrusion

- Understand how profile features and process variables interact for any metal alloy
- Efficient and process-driven
- Design optimal parts and dies
- Reduce manufacturing costs

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Simcenter Inspire Extrude Polymer

Simcenter Inspire Extrude Polymer



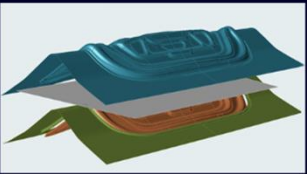
Design for efficient polymer extrusion

- Eliminate costly prototypes and reduce redesign cycles
- Easy to use
- Improve extrusion quality
- Improve productivity

SIEMENS

Simcenter Inspire Form

Simcenter Inspire Form



Design for efficient polymer extrusion

- Eliminate costly prototypes and reduce redesign cycles
- Easy to use
- Improve extrusion quality
- Improve productivity

SIEMENS

Simcenter Inspire Cast

Simcenter Inspire Cast



Fast, easy, accurate and affordable casting simulation

- Solution for beginners and experts
- Design for castings
- Minimize process complexity
- Improve quality and productivity

SIEMENS

Simcenter Inspire Mold

Simcenter Inspire Mold



Streamlined, integrated tool for design for manufacturing (DFM) of injection molded components

- Single, unified environment for part designers and toolmakers to work together
- Identify defects early in development to reduce costly mold trials and reject rates
- Auto-generate tooling geometry for key mold components from 3D part design
- Test and optimize mold tool configurations in seconds

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Simcenter Inspire Polyfoam

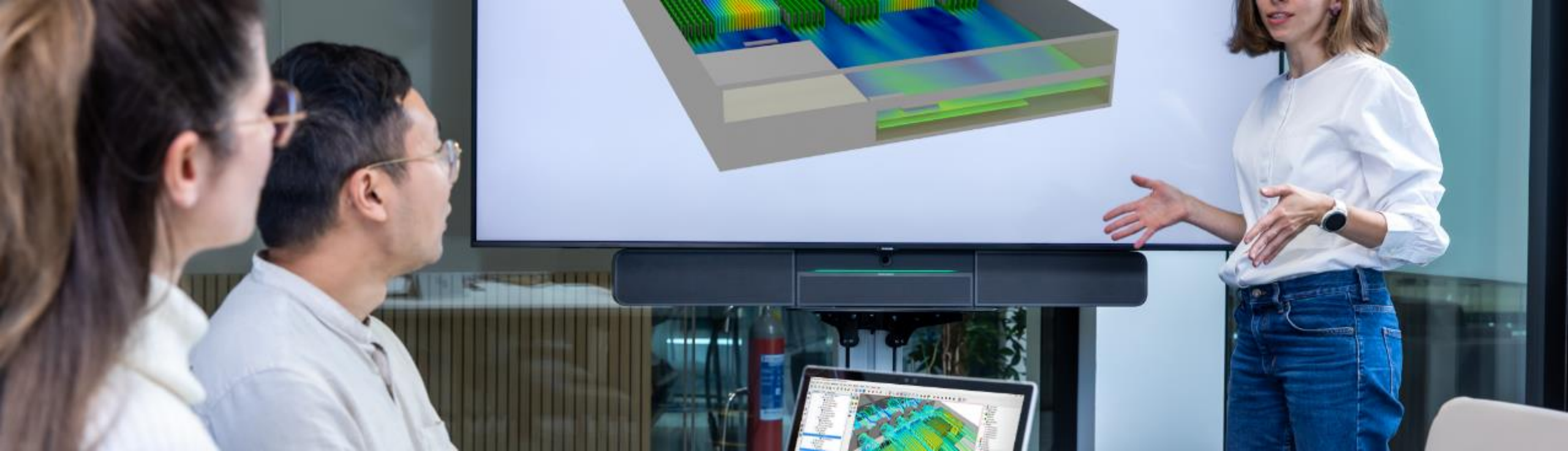
Simcenter Inspire Polyfoam



Polyurethane foam simulation

- Unique, integrated approach to streamline design for manufacturing (DFM) of flexible molded foam components and rigid foam parts
- Understand entire process to identify and fix manufacturing defects
- Assure manufacturability with fewer product design iterations
- Reduce prototypes and mold trials, assure process feasibility

SIEMENS



Fluids simulation

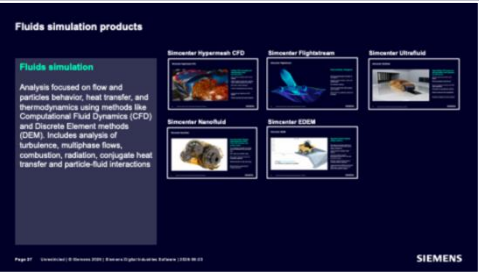
Engineer innovation with multiphysics computational fluid dynamics (CFD) simulation

Fluids simulation products

Fluids simulation

Explore how you can leverage computational fluid dynamics and computational chemistry for a range of applications, including external aerodynamics, multiphase and reacting flows, electronics cooling, material property predictions, and many more.

Fluids simulation



Materials science and management



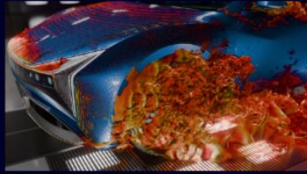
Fluids simulation products

Fluids simulation

Analysis focused on flow and particles behavior, heat transfer, and thermodynamics using methods like Computational Fluid Dynamics (CFD) and Discrete Element methods (DEM). Includes analysis of turbulence, multiphase flows, combustion, radiation, conjugate heat transfer and particle-fluid interactions

Simcenter Hypermesh CFD

Simcenter Hypermesh CFD

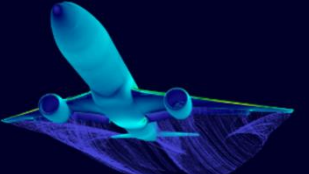


- Unified CFD simulation for aerodynamics and aeroacoustics
- Fast, intuitive workflows with AI-driven insights
- Single interface for geometry, meshing, setup, postprocessing and reporting
- 80% faster model preparation
- Precise, watertight geometry handling
- Automated part tagging and DOE studies
- Predict outcomes from past simulations

SIEMENS

Simcenter Flightstream

Simcenter Flightstream



- Panel methods, reimagined
- End-to-end aerodynamic simulation in one platform
- Supports internal surfaces, rotor and aeroelasticities
- No volumetric meshing
- Viscous-coupled solver with boundary layer modeling
- Works with NX, SolidWorks, ANSA and ProE

SIEMENS

Simcenter Ultrafluid

Simcenter Ultrafluid



- High-fidelity CFD solver for aerodynamics and transient aerodynamics
- Streamline greenhouse cabin noise issues
- Boost aerodynamic performance
- Ensure compliance with fan and HVAC noise regulations
- Accelerate the development workflow
- Reduce turnaround time dramatically
- Streamline insights and communication

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Simcenter Nanofluid

Simcenter Nanofluid

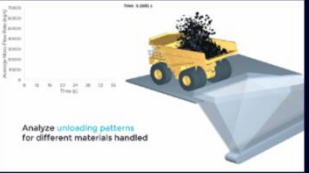


- Fast Smoothed Particle Hydrodynamics (SPH) solver for dynamic free surface flows
- True multiphase capability to simulate liquid-liquid interactions and high-speed flows
- GPU native and multiGPU ready
- Wide range of physical models and boundaries supported
- Tailored solutions for easy case setup
- Minimal cleanup required due to meshless approach

SIEMENS

Simcenter EDEM

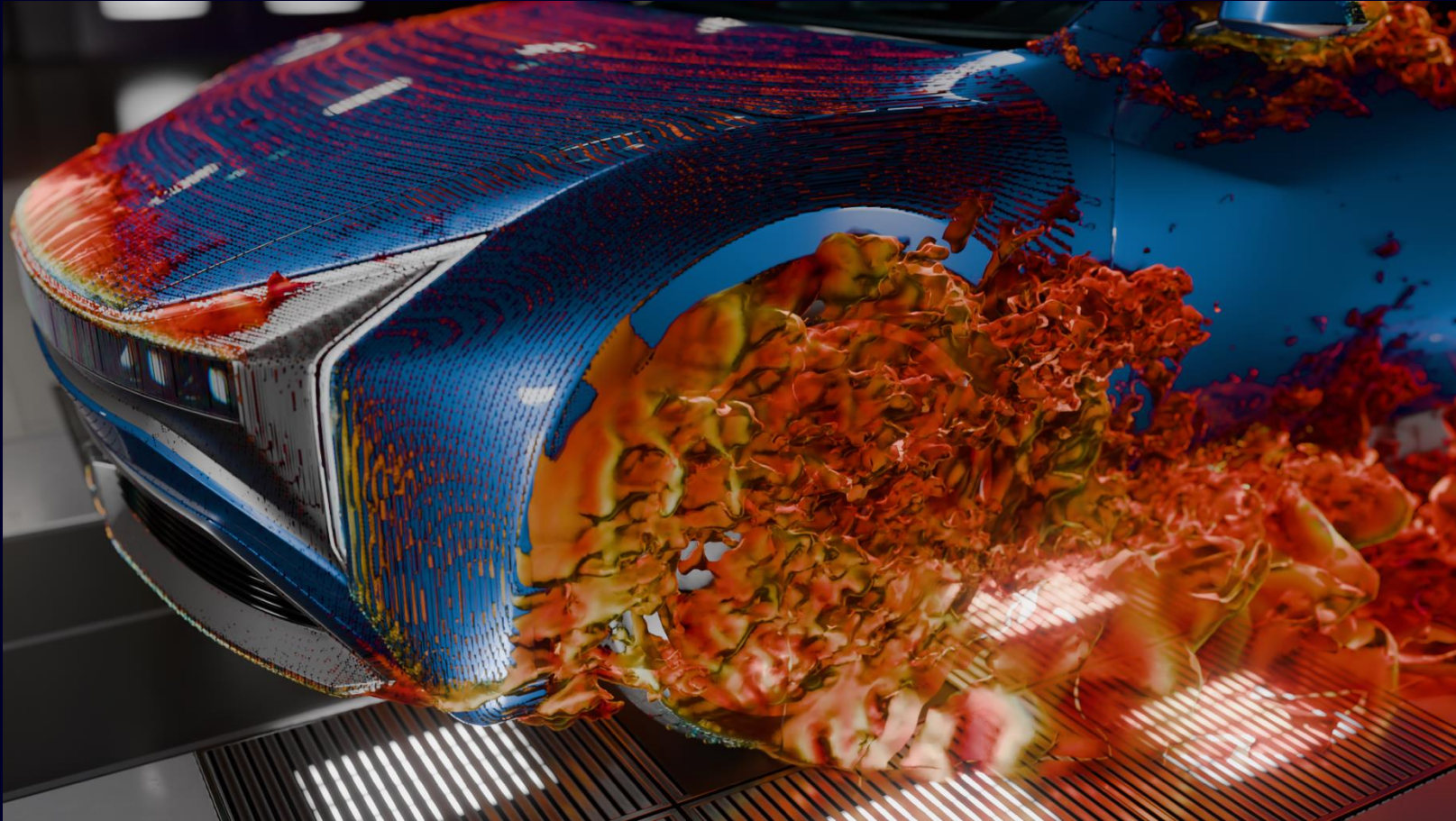
Simcenter EDEM



- Discrete element method (DEM) software
- Simulates and analyzes behavior of coal, mineral ores, salts, fibers, grains, pellets, powders etc.
- Instant access to material model libraries
- Fast and accurate compute performance across CPU, GPU and multi-GPU systems
- Simulate complex particle systems involving millions of particles
- Couple Simcenter EDEM with FEA and CFD tools or standalone with CFD for particle-fluid systems analysis

SIEMENS

Simcenter Hypermesh CFD



Unified CFD simulation for aerodynamics and aeroacoustics

Fast, intuitive workflows with AI-driven insights

Single interface for geometry, meshing, setup, postprocessing and reporting

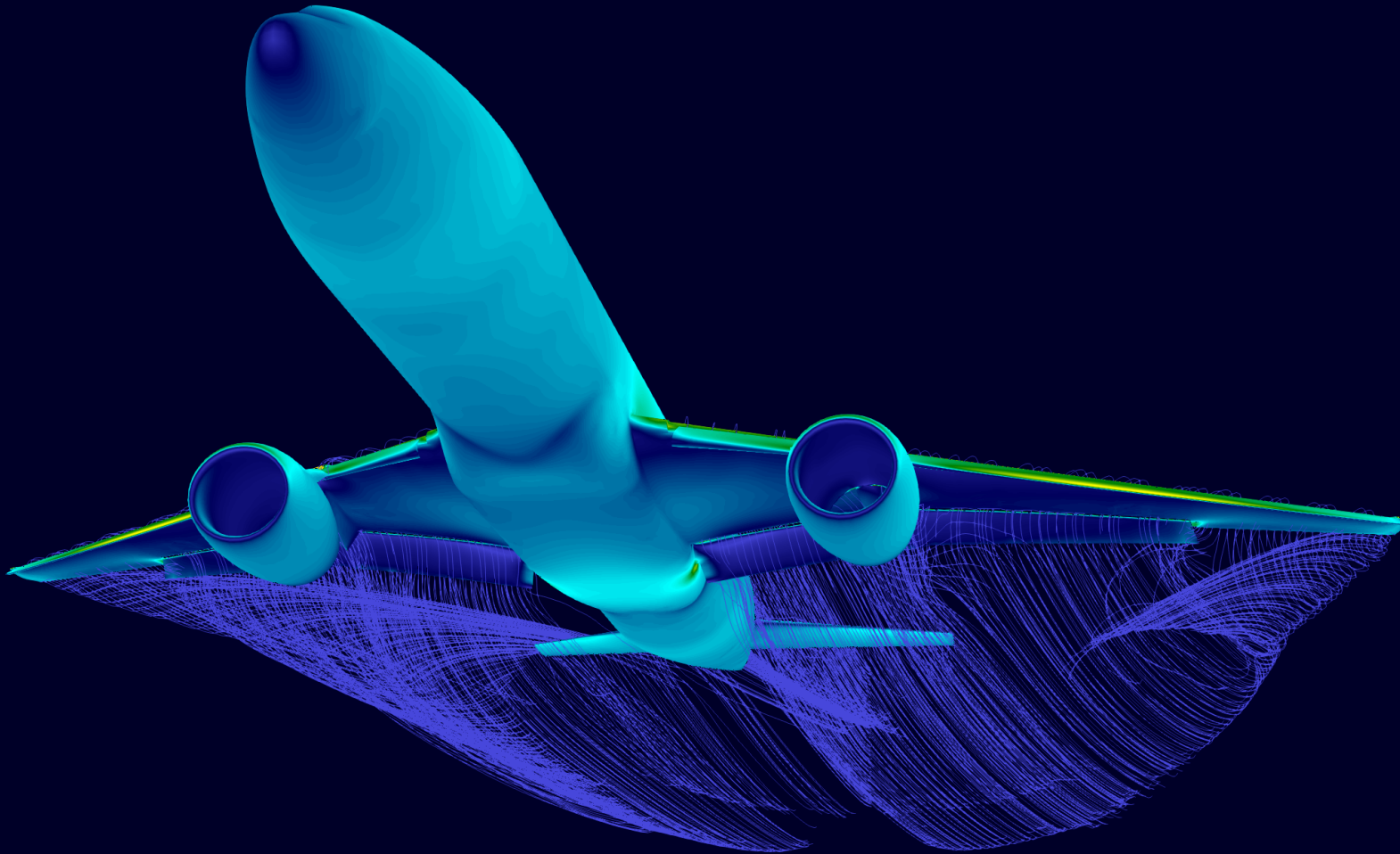
80% faster model preparation

Precise, watertight geometry handling

Automated part tagging and DOE studies

Predict outcomes from past simulations

Simcenter Flightstream



Panel methods, reimaged

End-to-end aerodynamic simulation in one platform

Supports control surfaces, motion and aeroacoustics

No volumetric meshing

Viscous-coupled solver with boundary layer modeling

Works with NX, SolidWorks, ANSA and Pointwise

Simcenter Ultrafluid



High-fidelity CFD solver for aeroacoustics and transient aerodynamics

Eliminate greenhouse cabin noise
issues

Boost aerodynamic performance

Ensure compliance with fan and HVAC
noise regulations

Accelerate the development workflow

Reduce turnaround time dramatically

Streamline insights and communication



Fast Smoothed Particle Hydrodynamics (SPH) solver for dynamic free surface flows

True multiphase capability to simulate liquid-air interactions and high speed flows

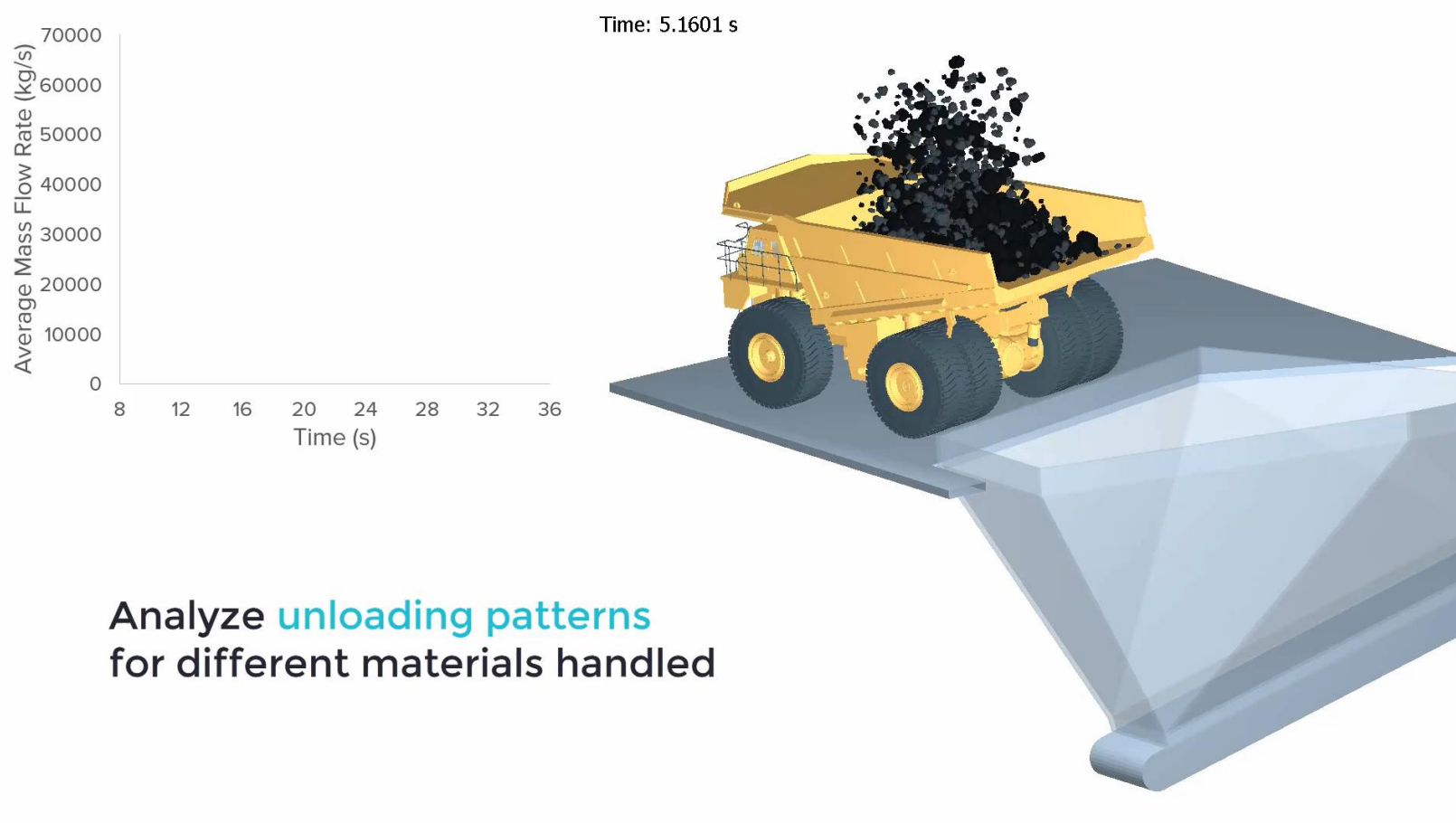
GPU native and multiGPU ready

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Tailored solutions for easy case setup

Minimal cleanup required due to meshless approach

Simcenter EDEM



Discrete element method (DEM) software

Simulates and analyzes behavior of coal, mined ores, soils, fibers, grains, tablets, powders etc

Instant access to material model libraries

Fast and scalable compute performance across CPU, GPU and multi-GPU solvers

Simulate complex particle systems involving millions of particles

Couple Simcenter EDEM with FEA and MBD tools or combine with CFD for particle fluid systems analysis

Materials science and management products

Materials science and management

Characterize and model material properties at multiple scales (nano to macro) to predict performance in applications. Combine experimental testing with computational materials science, including microstructure simulation, composite behavior modeling, and material data management systems for consistent material definitions across simulation disciplines and applications.

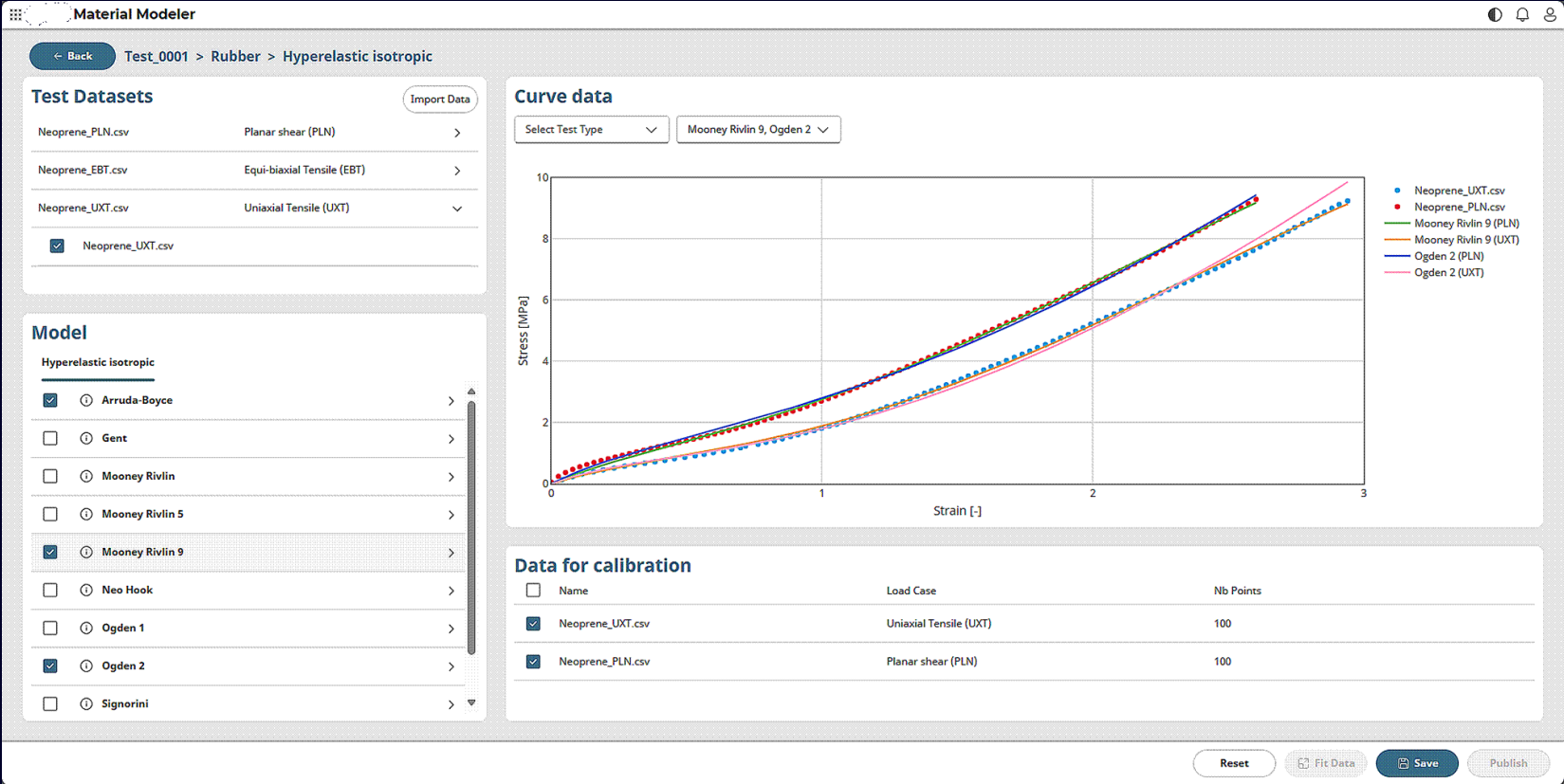
Simcenter Material Modeler



Simcenter Material Data Center



Simcenter Material Modeler



Comprehensive multiphysics material modeling framework

- Transform raw data into simulation-ready material cards
- Intuitive workflows turn test data into CAE-ready material models
- Define material models for multiple CAE disciplines
- Integrated simulation, validation and material parameter stability checks
- Automated processing and export to multiple solver formats
- Integrated with Simcenter Material Data Center for secure data sharing

Simcenter Material Data Center



Traceable materials database for simulation and design

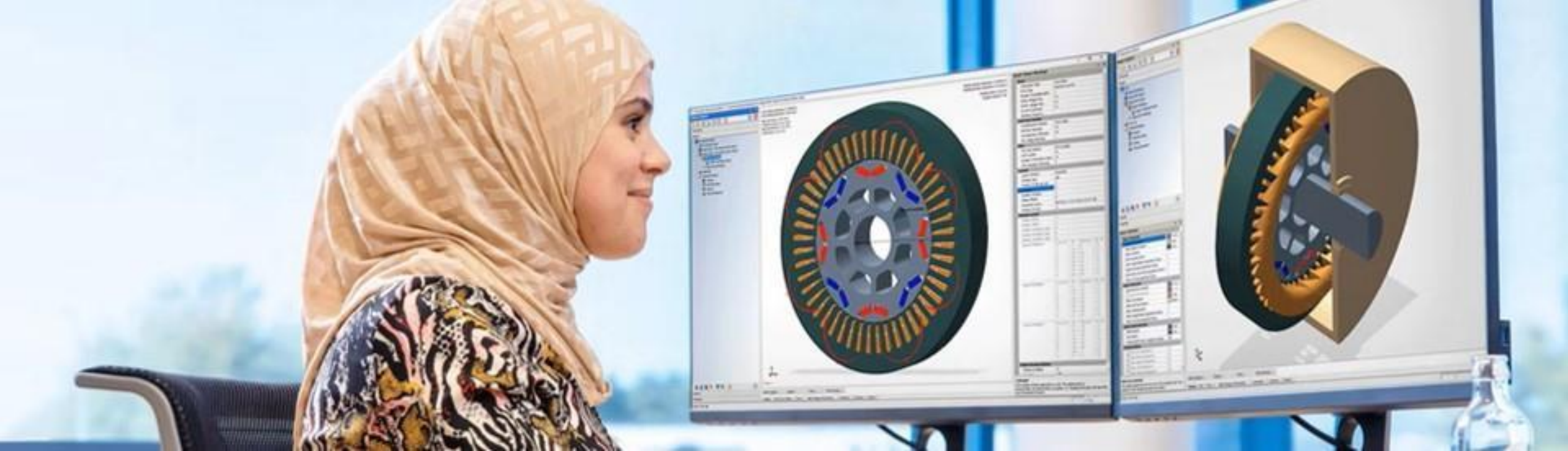
Validated data for polymers, metals and composites

Fill data gaps with AI materials intelligence

Seamless integration with CAE workflows

Full traceability

Manage, store and share data in secure, private databases



Electromagnetics simulation

High-performance electromagnetic simulation for addressing electromagnetic compatibility (EMC) and electromagnetic interference (EMI) issues

Electromagnetics simulation products

Electromagnetics simulation

Analyze electric and magnetic fields, their interaction, and impact on components and systems. Simulate high- and low-frequency electromagnetics, electromagnetic compatibility (EMC), signal integrity, and coupled physics involving electromagnetic effects.

Simcenter FEKO



Solving connectivity, compatibility and radar challenges

High-frequency electromagnetics simulation

Design and test antennas, check for interference and analyze radar and electromagnetic effects

Improved workflow from geometry modeling to results visualization, and scripting for advanced data manipulation

Supports applications such as 5G, spectrum management, radome modeling and virtual testing

Supports integrated tools like VDA5050 and MATLAB

SIEMENS

Simcenter Flux



Accelerate motor, sensor and actuator design

Simulate magnets static, steady-state, and transient conditions along with electrical and thermal properties

Seamless multiphysics optimization

Closely replicate measurements, reproducing complex phenomena with high accuracy

Fine-tune models and solvers, capture and automate simulation processes efficiently

Supports an open environment for use of various tools

SIEMENS

Simcenter Fluxmotor



E-Motor topology exploration and multiphysics optimization

Design electric motors and explore a variety of configurations while considering multiphysics constraints

Single environment enables designers to predict electromagnetic performance and optimize cooling strategies

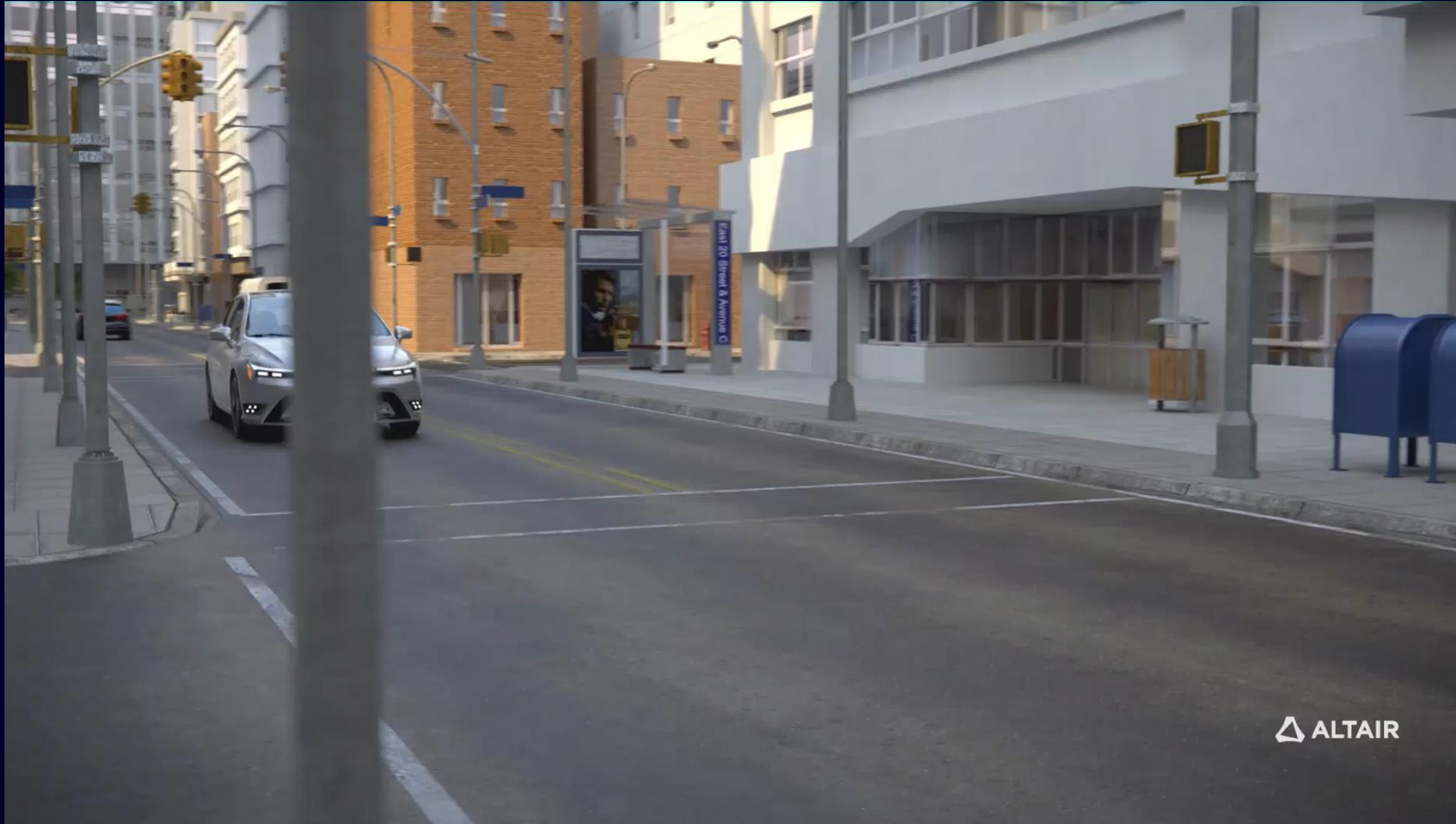
Streamlined development process

Generate customizable reports featuring design and complete data sheets are automatically edited

An embedded comparator helps making informed choices for selecting the most performant machines

SIEMENS

Simcenter Feko



Solving connectivity, compatibility and radar challenges

High-frequency electromagnetics simulation

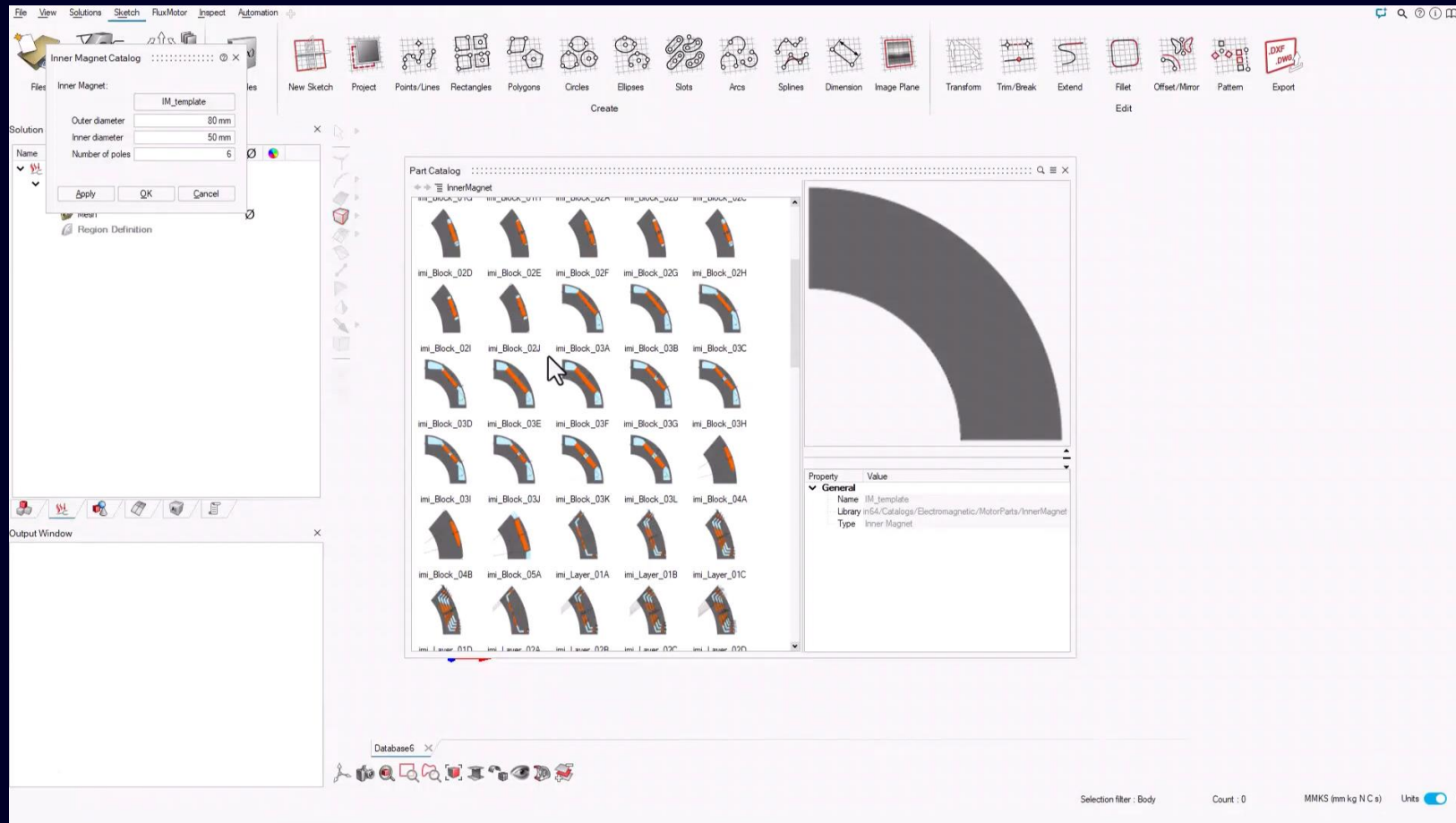
Design and test antennas, check for interference and analyze radar and electromagnetic effects

Improved workflows from geometry modeling to results visualization, and scripting for advanced data manipulation

Supports applications such as 5G, spectrum management, radome modeling and virtual testing

Supports integrated tools like WRAP and WinProp

Simcenter Flux



Accelerate motor, sensor and actuator design

Simulate magneto static, steady-state, and transient conditions along with electrical and thermal properties

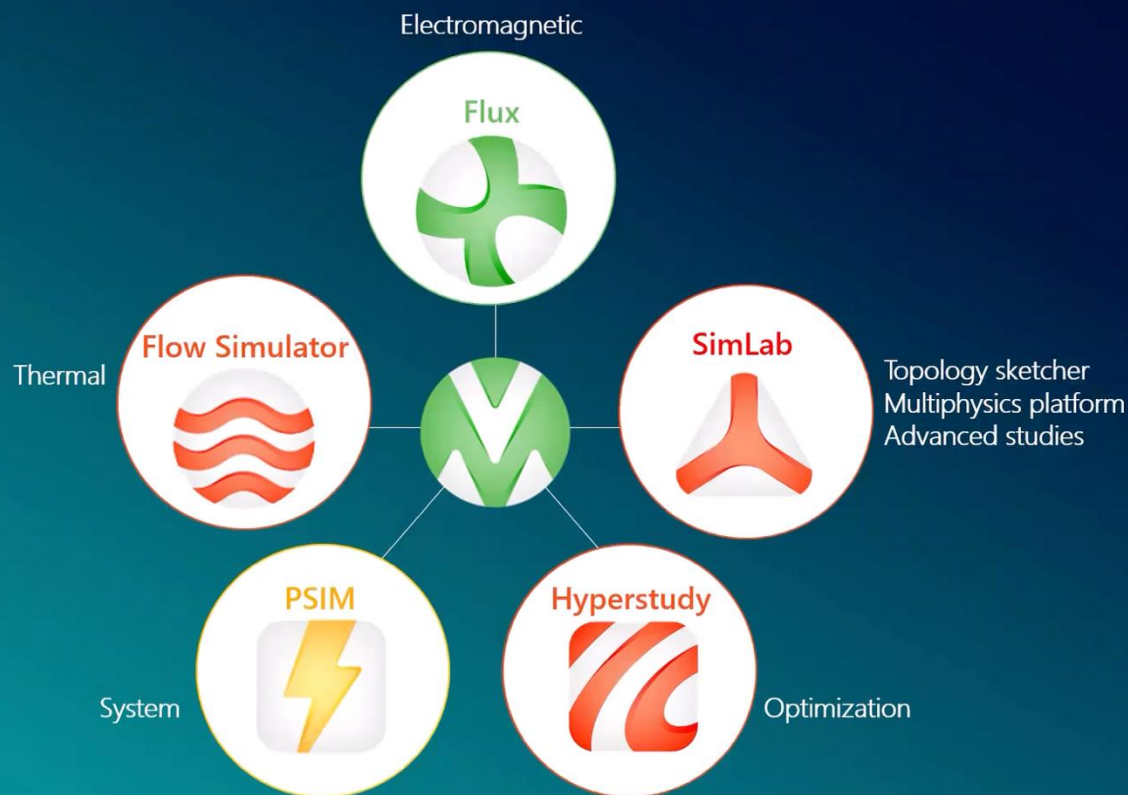
Seamless multiphysics optimization

Closely replicate measurements, reproducing complex phenomena with high accuracy

Fine-tune models and solvers, capture and automate simulation processes efficiently

Supports an open environment for use of various tools

Simcenter Fluxmotor



E-Motor topology exploration and multiphysics optimization

Design electric motors and explore a variety of configurations while considering multiphysics constraints

Single environment enables designers to predict electromagnetic performance and optimize cooling strategies

Frontload development process

Generate customizable reports featuring maps and complete data sheets are automatically edited

An embedded comparator helps making informed choices by selecting the most performant machines



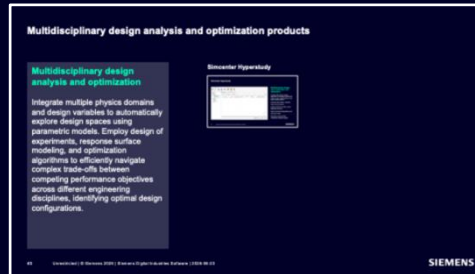
Engineering applications and engineering AI

Engineering applications and engineering AI products

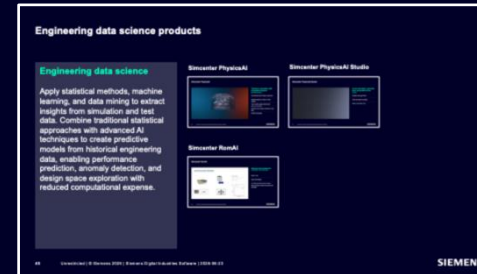
Engineering applications and engineering AI

Integrate multiple engineering disciplines into a single optimization framework. Automate analysis workflows, maximizing available computational hardware and software resources and efficiently exploring the design space. Leverage deep learning and predictive analytics to enhance engineering workflows.

MDAO



Engineering data science

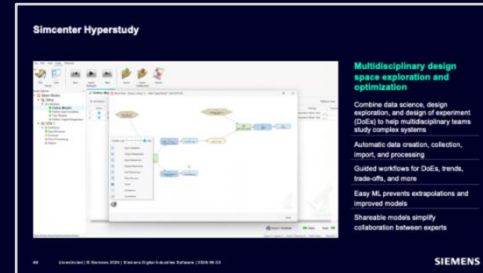


Multidisciplinary design analysis and optimization products

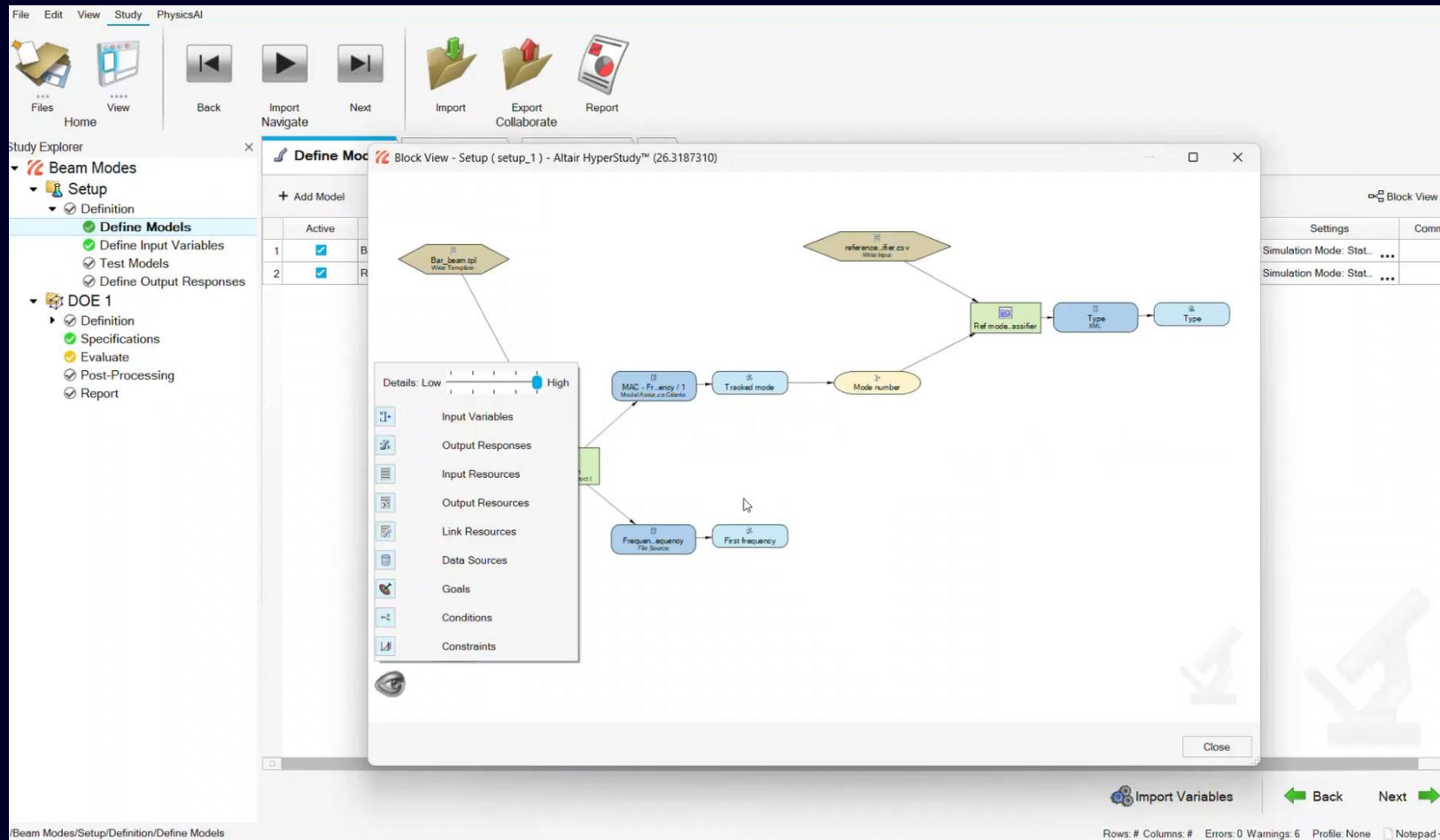
Multidisciplinary design analysis and optimization

Integrate multiple physics domains and design variables to automatically explore design spaces using parametric models. Employ design of experiments, response surface modeling, and optimization algorithms to efficiently navigate complex trade-offs between competing performance objectives across different engineering disciplines, identifying optimal design configurations.

Simcenter Hyperstudy



Simcenter Hyperstudy



Multidisciplinary design space exploration and optimization

Combine data science, design exploration, and design of experiment (DoEs) to help multidisciplinary teams study complex systems

Automatic data creation, collection, import, and processing

Guided workflows for DoEs, trends, trade-offs, and more

Easy ML prevents extrapolations and improved models

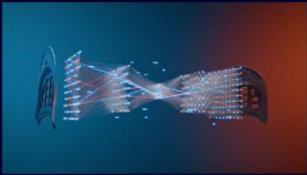
Shareable models simplify collaboration between experts

Engineering data science products

Engineering data science

Apply statistical methods, machine learning, and data mining to extract insights from simulation and test data. Combine traditional statistical approaches with advanced AI techniques to create predictive models from historical engineering data, enabling performance prediction, anomaly detection, and design space exploration with reduced computational expense.

Simcenter PhysicsAI



Transform simulation with AI-powered physics predictions

- Dramatically faster design exploration
- Operate directly on mesh or CAD models
- Train models, apply across tools, teams and physics
- Evaluate more design variations in less time
- AI-driven accuracy

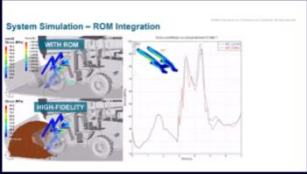
Simcenter PhysicsAI Studio



AI and simulation: generate, train, and predict in the cloud

- Scalable data generation
- Train and share AI models
- Reduce simulation time

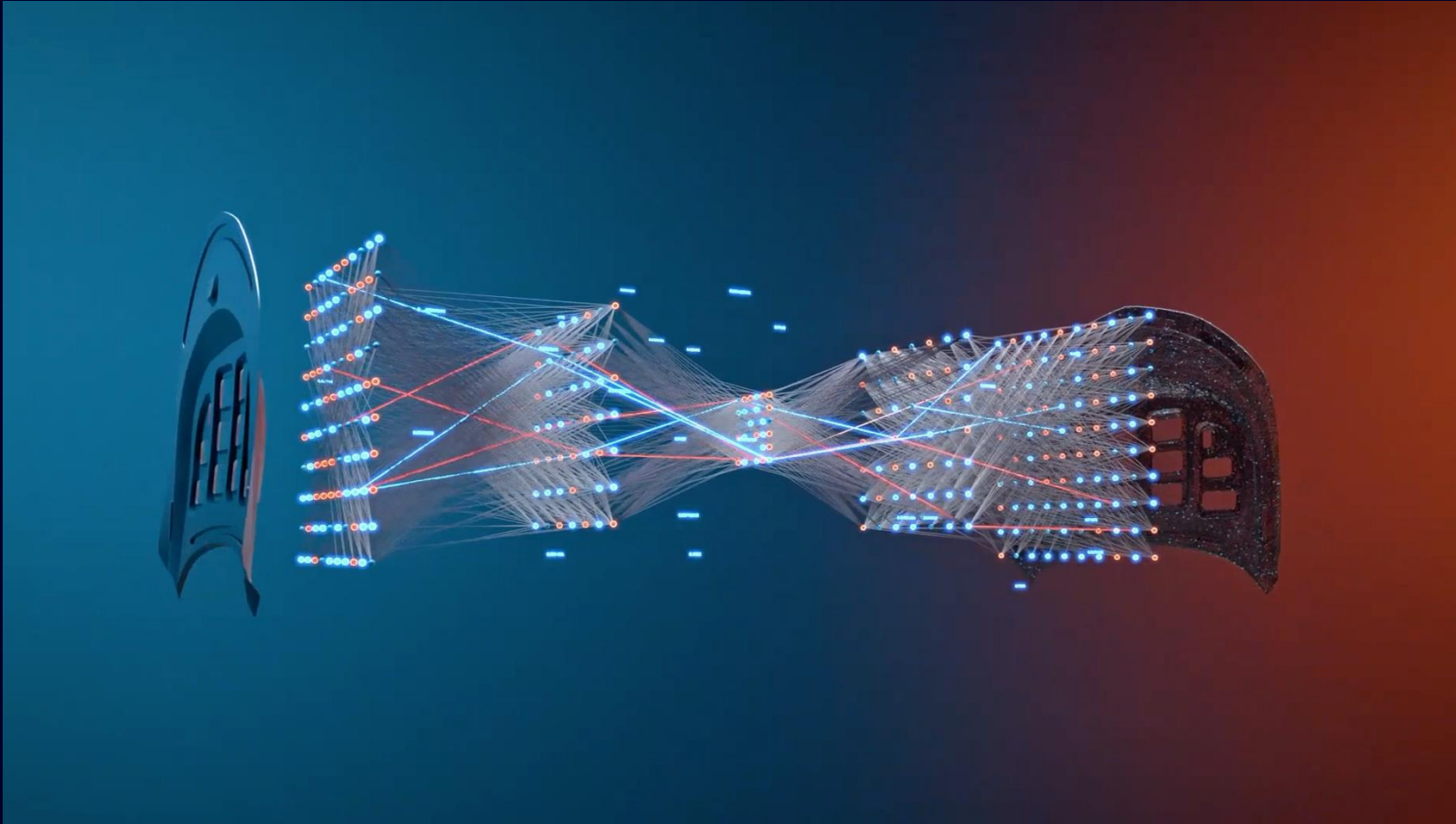
Simcenter RomAI



Reduced order models from simulation and test data

- Easy to use
- Open and flexible
- AI combined with dynamic system theory delivers superior accuracy with less data

Simcenter PhysicsAI



Transform simulation with AI-powered physics predictions

Dramatically faster design exploration

Operate directly on mesh or CAD
models

Train models, apply across tools,
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Evaluate more design variations in less
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AI-driven accuracy

Simcenter PhysicsAI Studio



AI and simulation: generate, train, and predict in the cloud

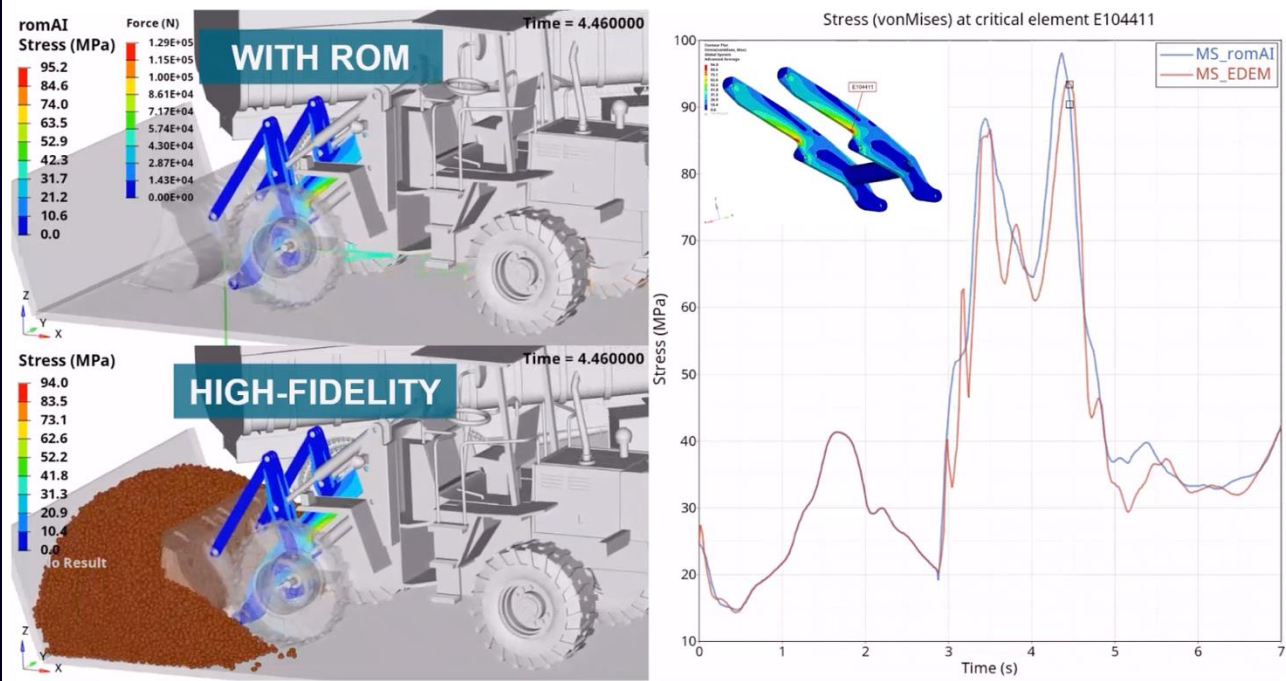
Scalable data generation

Train and share AI models

Reduce simulation time

System Simulation – ROM Integration

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Reduced order models from simulation and test data

Easy to use

Open and flexible

AI combined with dynamic system theory reaches superior accuracy with less data

Contact

Athanasios Besikiotis

Presales Solution Consultant

Simulation & Engineering AI / CEET

Alexandrou Michailidi 23

54640 Thessaloniki

Greece

E-mail athanasios.besikiotis@siemens.com