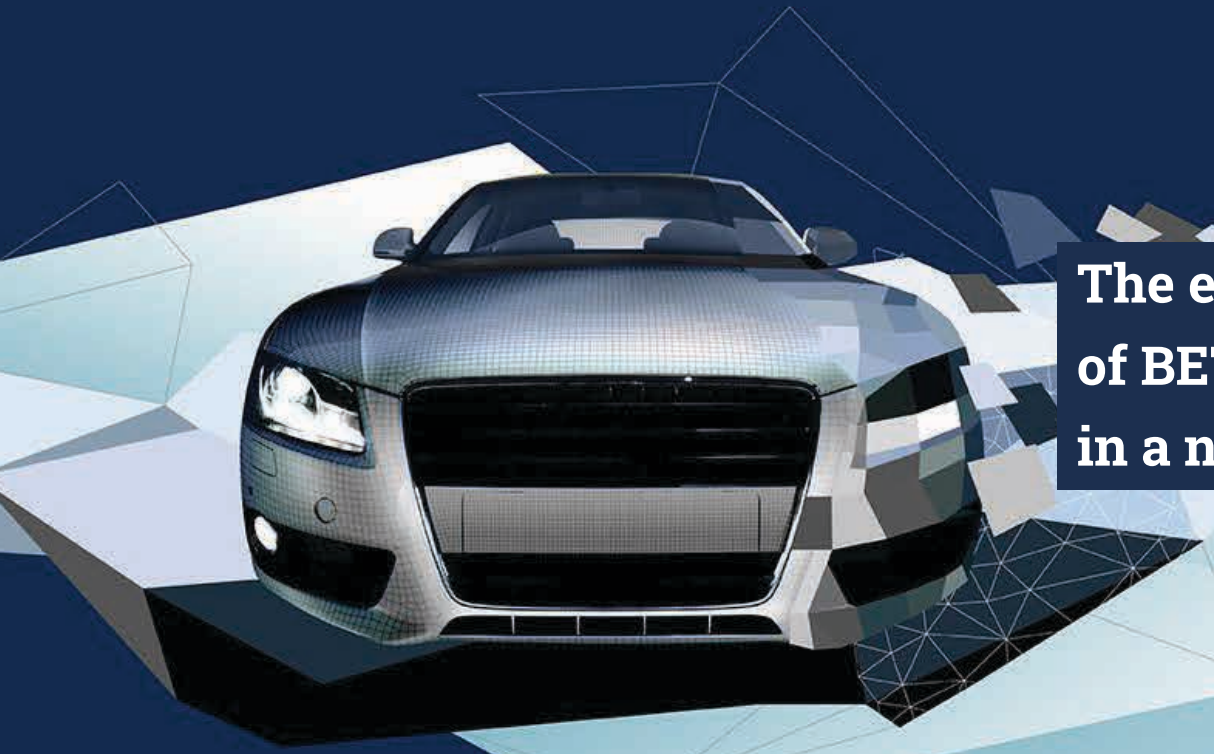
BETA
SIMULATION SOLUTIONS



The evolution of BETA CAE Systems portfolio in a nutshell

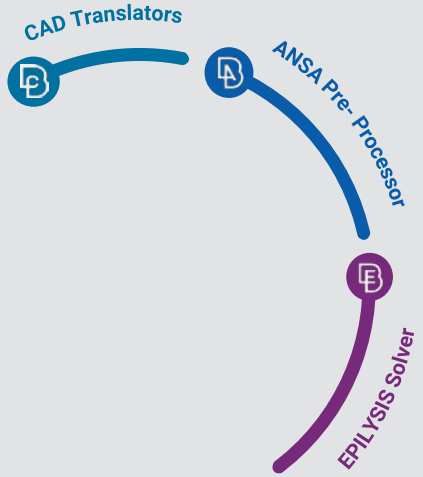
physics on screen

Blast from the Past!

Products map

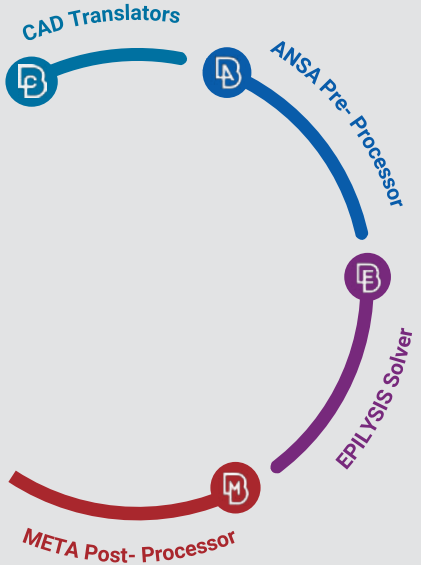
EPILYSIS
SOLVER

Products map



ANSA
PRE PROCESSOR

Products map



META
POST PROCESSOR

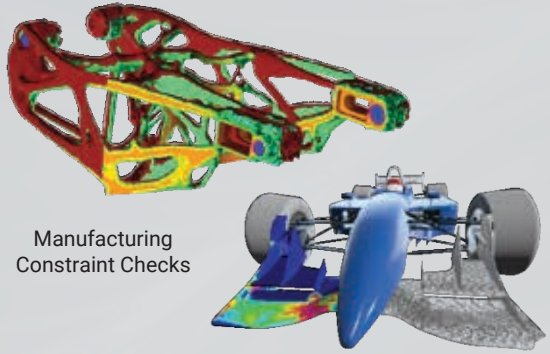
Products map


EPILYSIS
SOLVER
EPILYSIS Solver

High performance computing with our FEA solver, EPILYSIS

Accelerated Performance

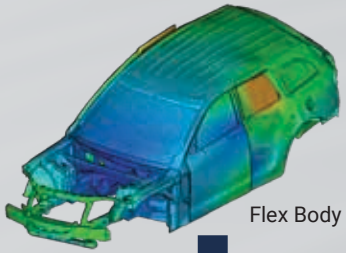
Optimization enhancements



Manufacturing Constraint Checks

DVPREL for Laminates

Enhanced Flex Body Calculation

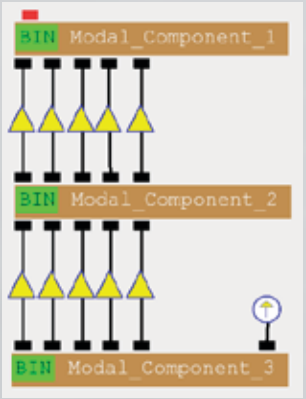


Flex Body

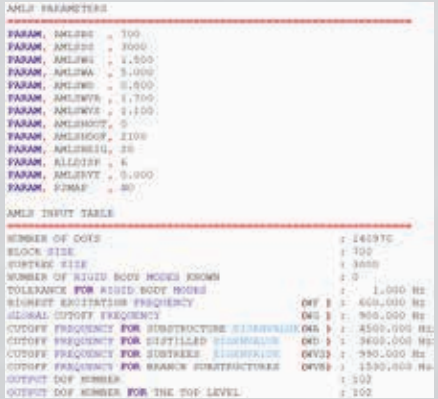
FMU

As State Equation Matrices

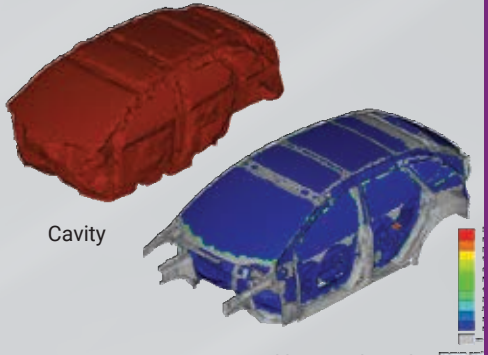
Modal Models



AMLS enhancements



New Fluid Structure Coupling



Cavity

New Pressure Equilibrium Algorithm

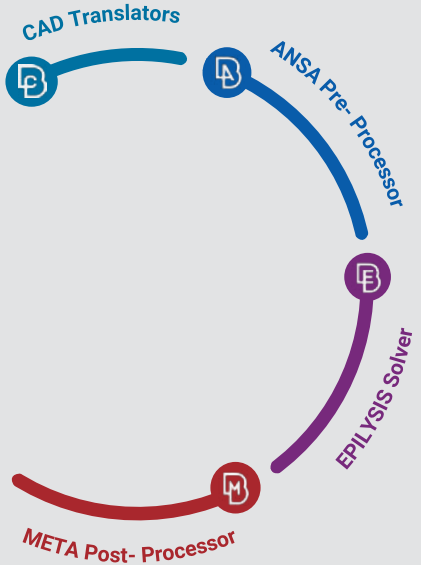
EPILYSIS

New features and enhancements in EPILYSIS

BETA CAE Systems

Thursday, June 15, 11:00 – 11:30, Session 5C | Jupiter

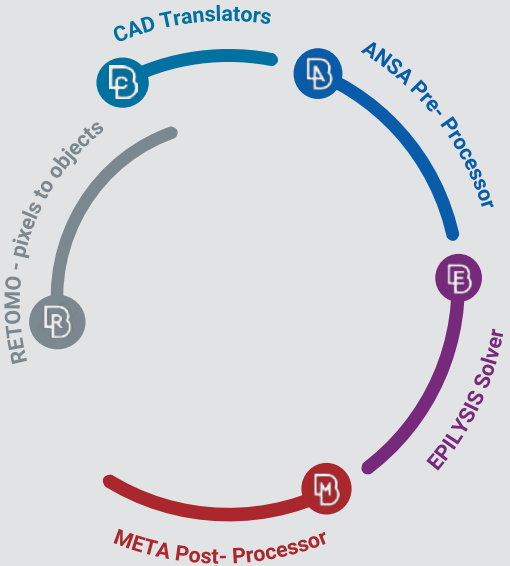
Products map



RETOMO

PIXEL TO OBJECT

Products map

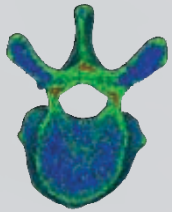



RETOMO - pixels to objects
RETOMO
PIXEL TO OBJECT

From image data to tessellated models with RETOMO

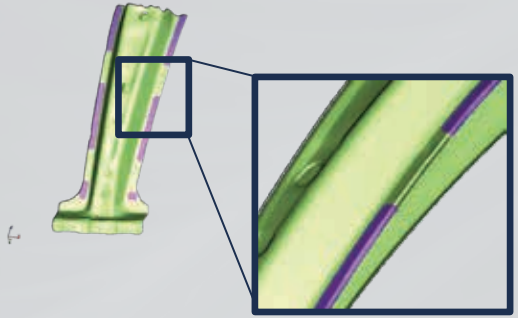
Material Mapping

Intensity Image

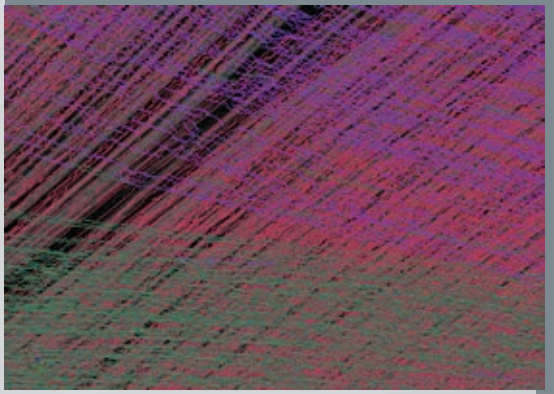


Mapped Material Properties in ANSA

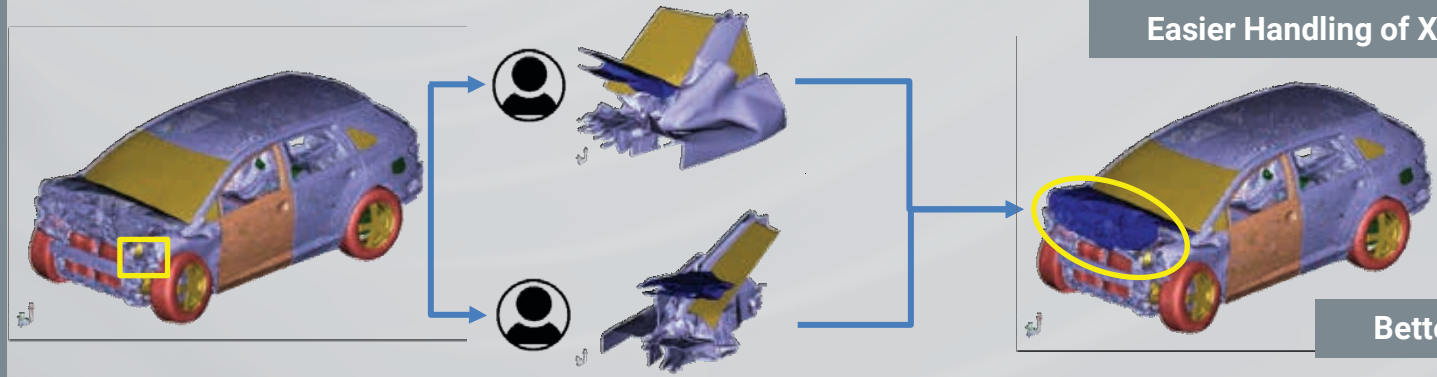
Automatic Flange detection



Fiber orientation analysis & tracking



Split / Merge Tool for XL CT Scans



Easier Handling of XL CT-Scans

Improved efficiency

Better resources management

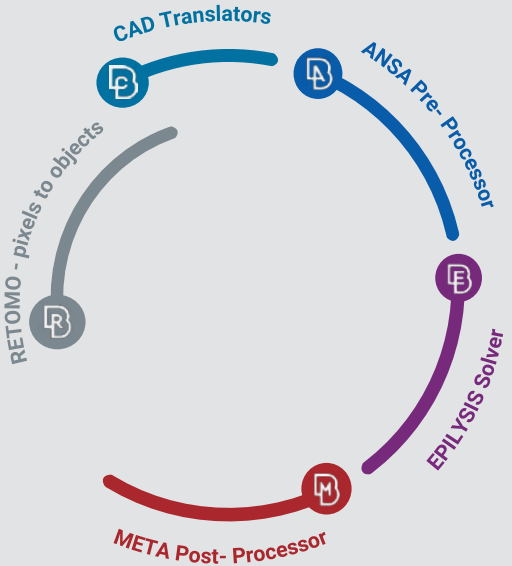
RETOMO

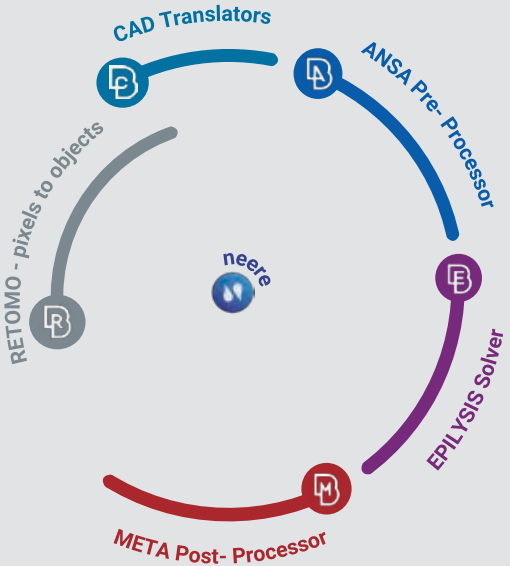
Exploring the latest developments in RETOMO
BETA CAE Systems
Friday, June 16, 11:00 – 11:30, Session 9D | Saturn

DEMO

Fiber reinforced material CT Scan processing with RETOMO
Friday, June 16, 12:00 – 12:30, Demo Session 9E | Venus I

Products map





neere

Products map


neere

neere

ENOUGH
WITH DISTANCE

Training sessions

Further BETA product support

Collaboration enhancements

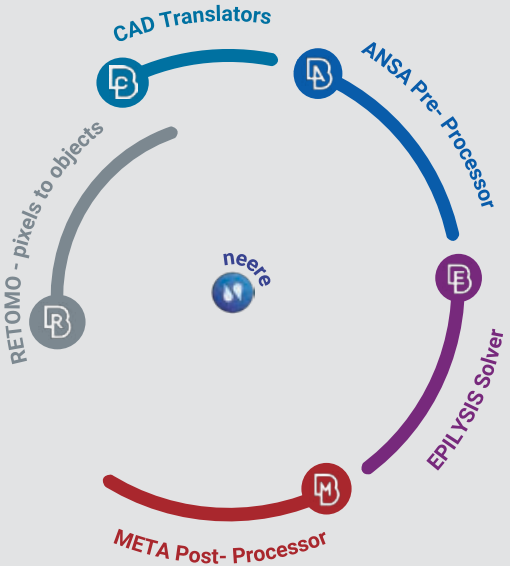
Certified state-of-the-art security

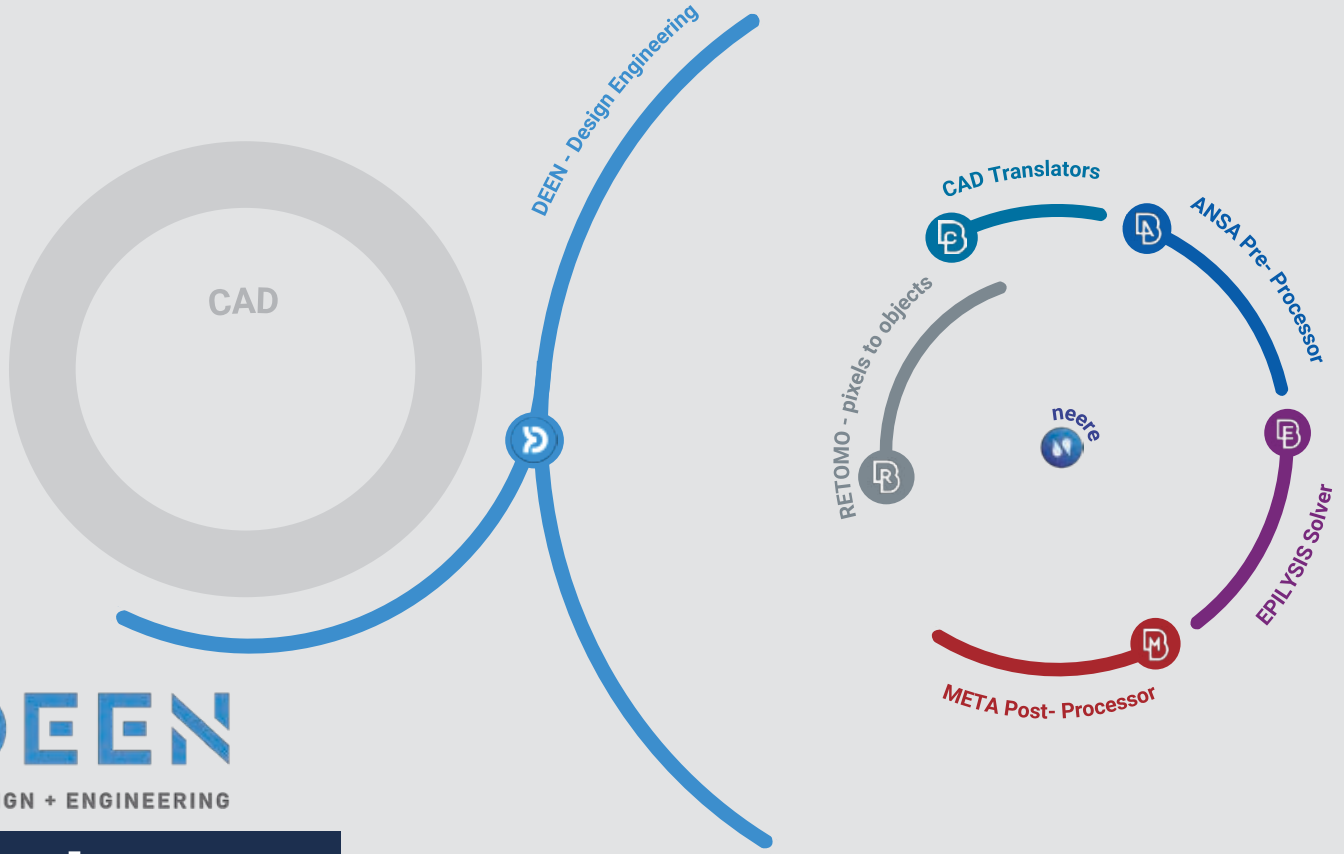
neere
ENOUGH WITH DISTANCE

NEERE: Beyond maturity, as a communications and training platform
BETA CAE Systems
Friday, June 16, 11:00 – 11:30, Session 9C | Jupiter

Latest developments and employment of NEERE as a training platform
Friday, June 16, 12:00 – 12:30, Demo Session 9G | Mars I

Products map

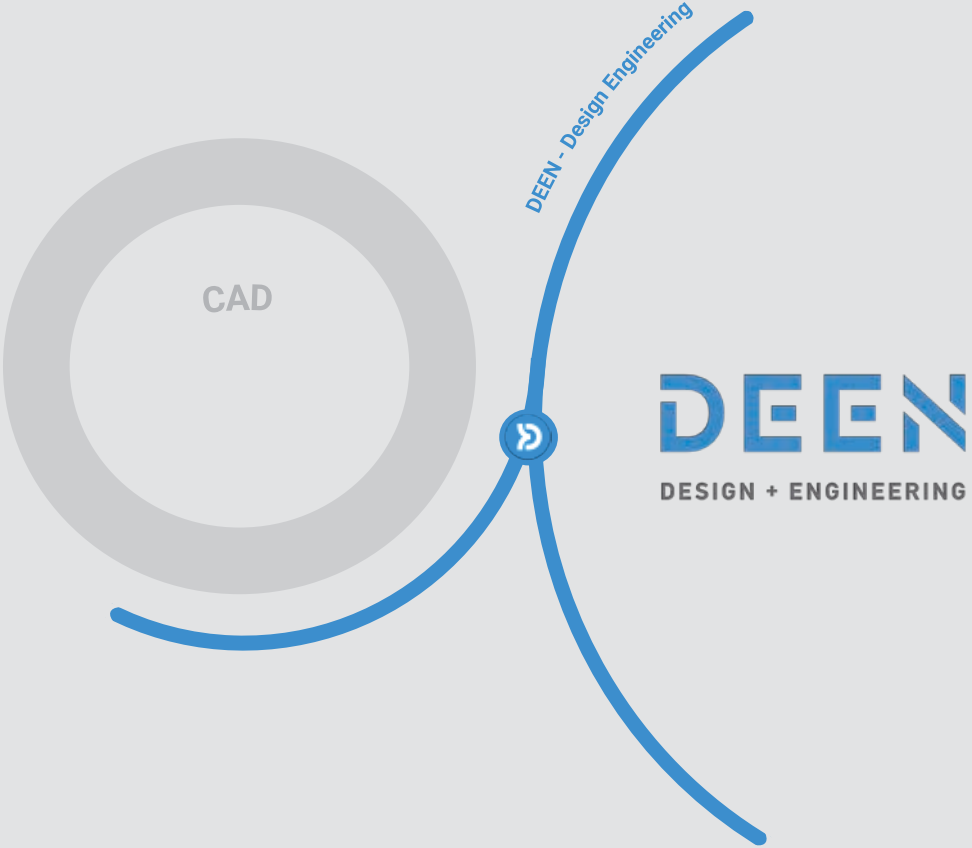




DEEN

DESIGN + ENGINEERING

Products map

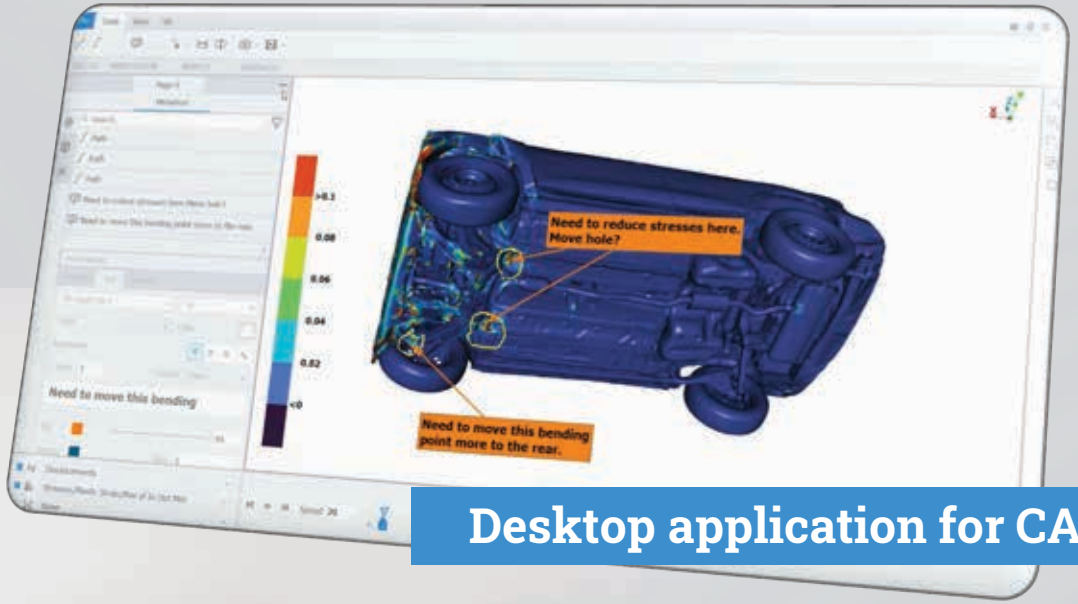


DEEN

DESIGN + ENGINEERING

DEEN

DESIGN + ENGINEERING



Desktop application for CAD and CAE engineers

Review designs and simulation results

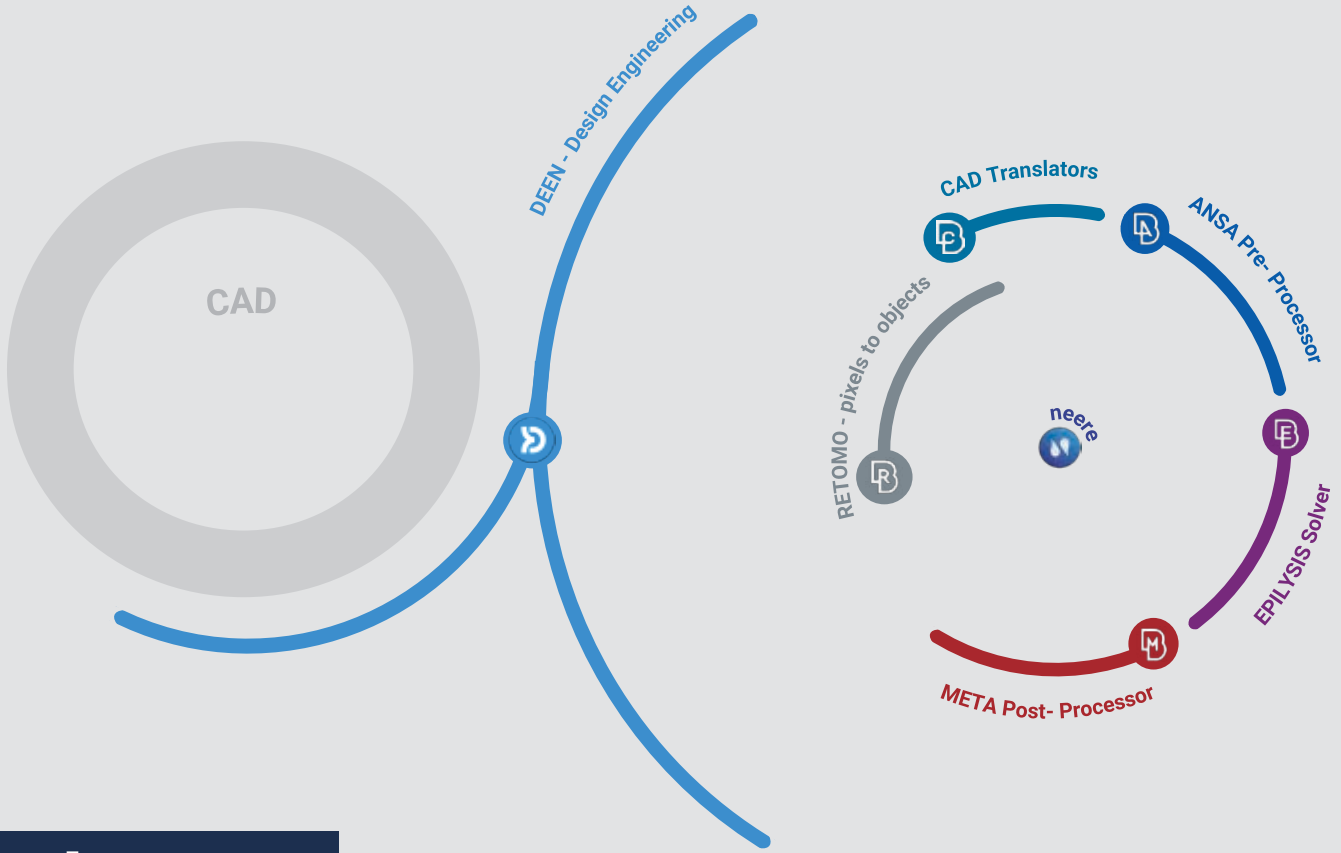
Allow designers to understand CAE proposals through an easy-to-handle tool

Boost product evolution cycles

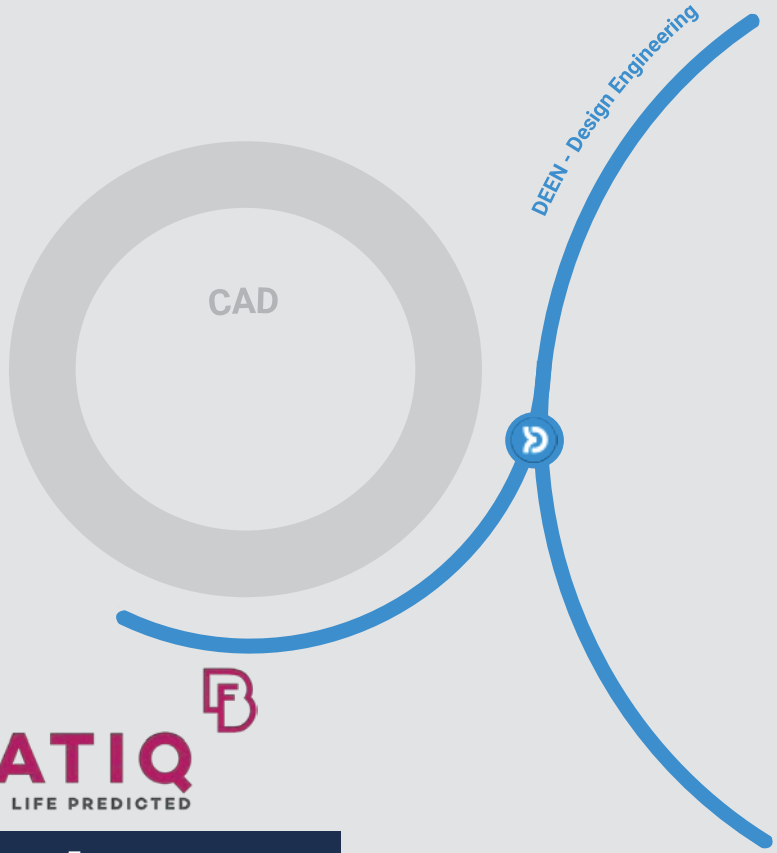
DEEN
DESIGN + ENGINEERING

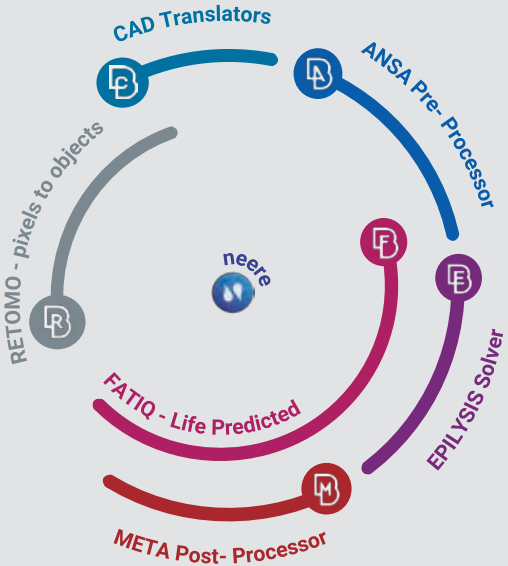
DEEN for simulation driven design

Wednesday, June 14, 16:00 – 16:30, Demo Session 3E | Venus I



Products map





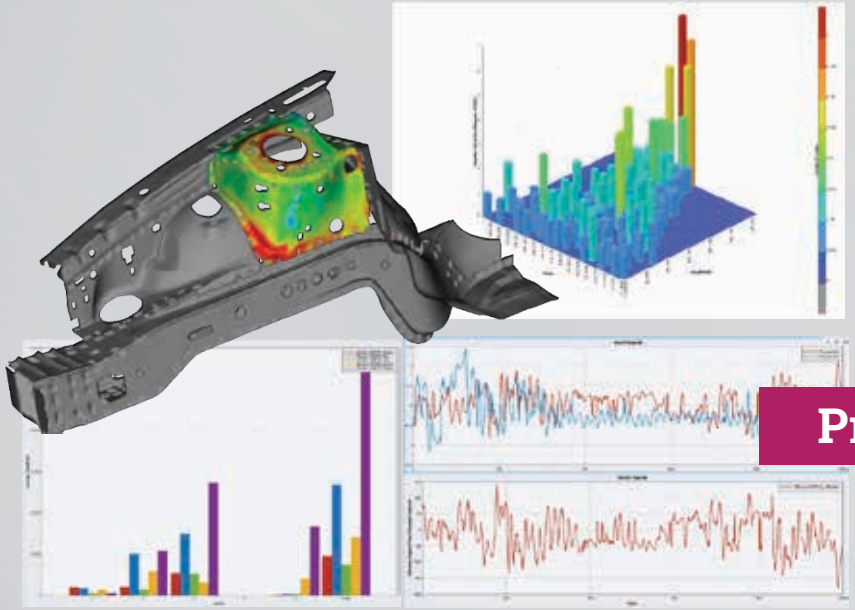
FATIQ
LIFE PREDICTED

Products map


FATIQ
LIFE PREDICTED
FATIQ - Life Predicted

FATIQ

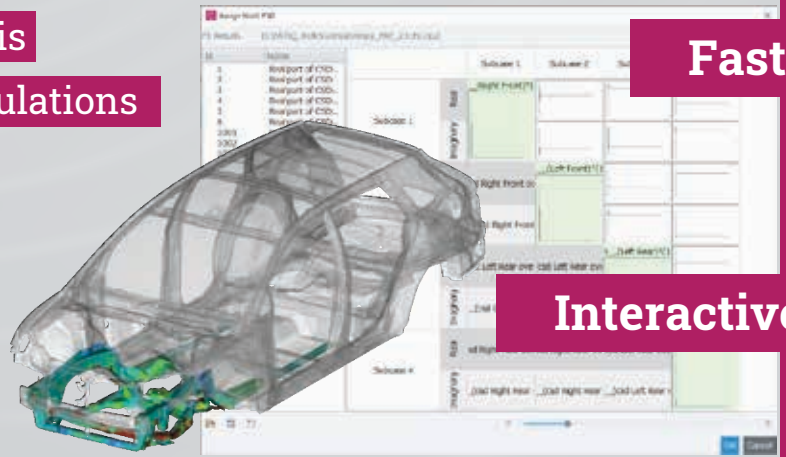
LIFE PREDICTED



Pre-Processing using stepwise analysis setup

Stress-Life & Strain-Life Analysis

Frequency & Time Domain Calculations



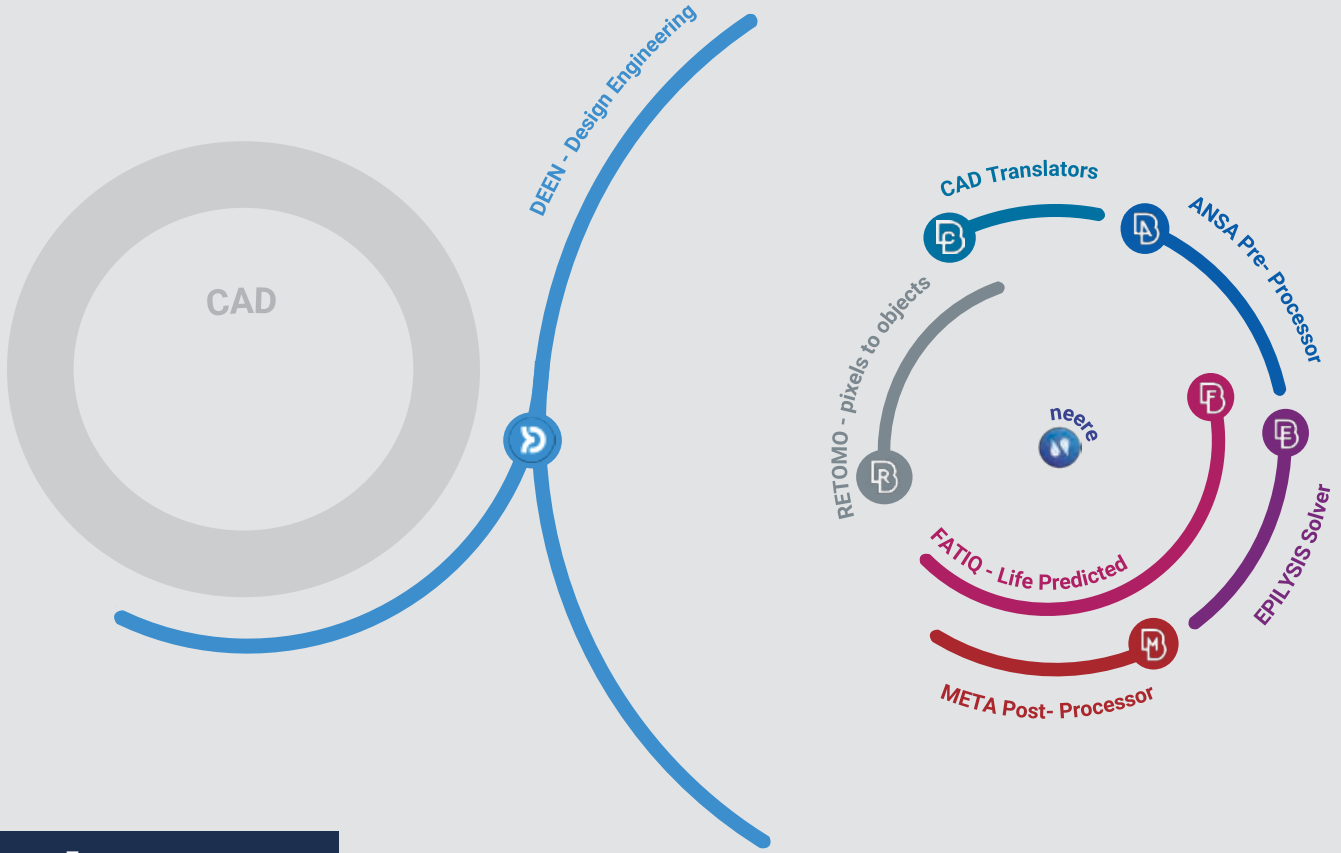
Fast and accurate Solving

Interactive Post-Processing

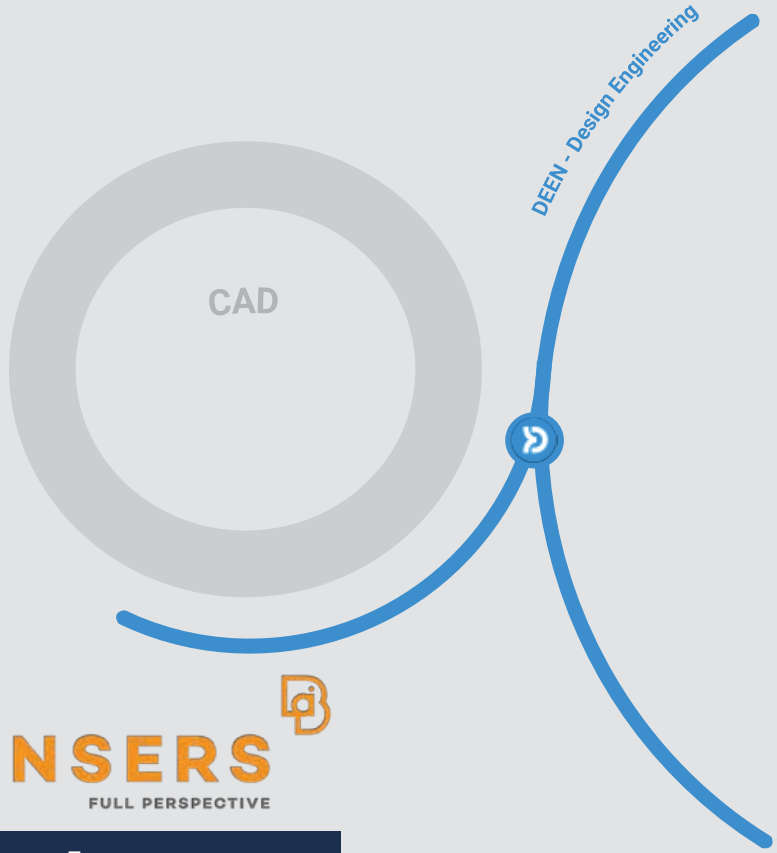
FATIQ
LIFE PREDICTED

FATIQ – The comprehensive platform for streamlined fatigue analyses
BETA CAE Systems
Thursday, June 15, 10:00 – 10:30, Session 4 | Audimax

Key features and use cases of FATIQ
Thursday, June 15, 14:00 – 14:30, Demo Session 6E | Venus I

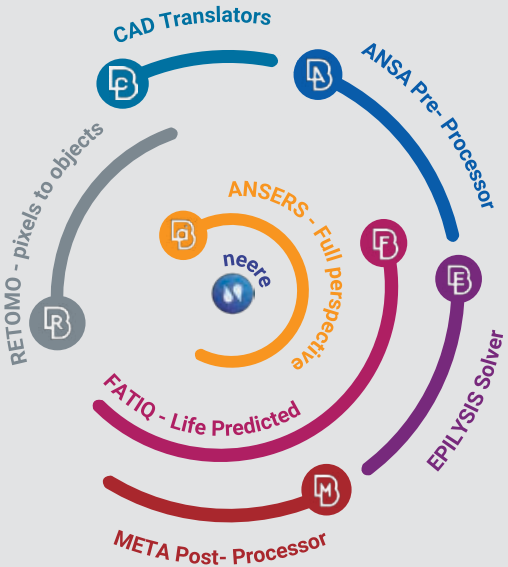


Products map



ANSERS
FULL PERSPECTIVE

Products map




ANSERS
FULL PERSPECTIVE


ANSERS - Full perspective

ANSERS

FULL PERSPECTIVE

Web application

Retrieving – Visualizing – Correlating – Sharing

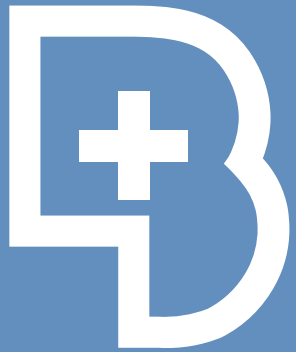
Simulation & Physical test data

ANSERS
FULL PERSPECTIVE

ANSERS: The single point-of-truth for simulation and physical test data
BETA CAE Systems
Thursday, June 15, 09:30 – 10:00, Session 4 | Audimax

ANSERS use cases
Thursday, June 15, 11:00 – 11:30, Demo Session 5F | Venus II

+add-ons

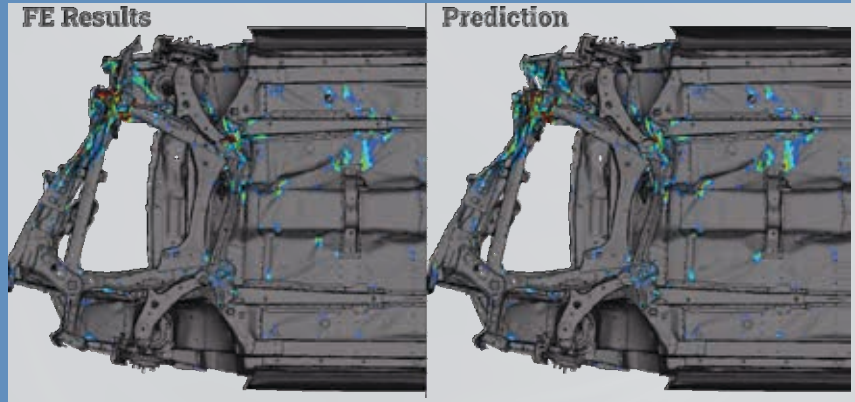


+Machine Learning toolkit

More brain power in Engineering Simulation

Predict Simulation Results – Machine Learning

Field Results Prediction

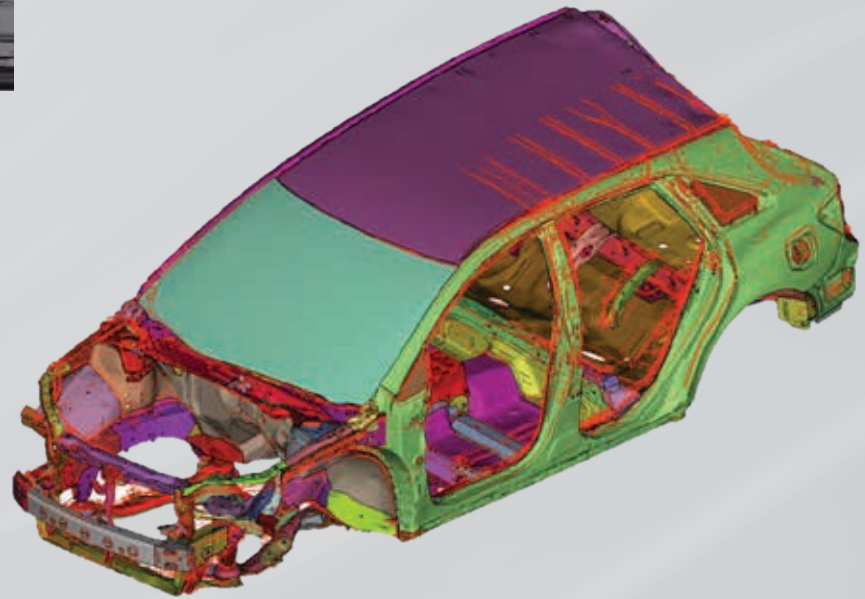


Elastic Modes Prediction

Response	Value (Hz)
First Torsional	27
First Lateral Bend	37
First Vertical Bend	33

Mode classification

Mode Number	
1	Vertical Bending
2	Lateral Bending
3	Torsional
4	Vertical Bending
5	Lateral Bending
6	Torsional
7	Torsional
8	Vertical Bending



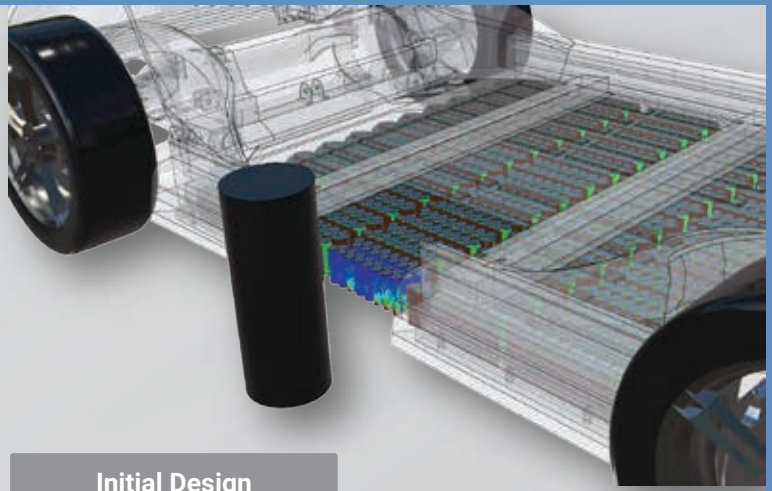
More brain power in Engineering Simulation

Machine Learning Tools for accelerating CAE and unleashing Design Exploration
BETA CAE Systems
Friday, June 16, 10:00 – 10:30, Session 8 | Audimax

DEMO

Machine Learning Design Variable and Feature-based training and simulation results prediction
Wednesday, June 14, 16:30 – 17:30, Demo Session 3E | Venus I

Applications of ML tools, in collaboration with Morphing, DOE and Optimization



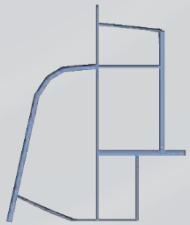
Occupant injury prediction

Safety features optimization

Initial Design

ML Optimization

Optimal Design



Eliminate damaged batteries

Mass constraint

More brain power in Engineering Simulation

Prediction of Occupant safety utilizing Machine Learning and CARLA Autonomous drive simulation software
BETA CAE Systems
Friday, June 16, 12:00 – 12:30, Session 9A | Audimax

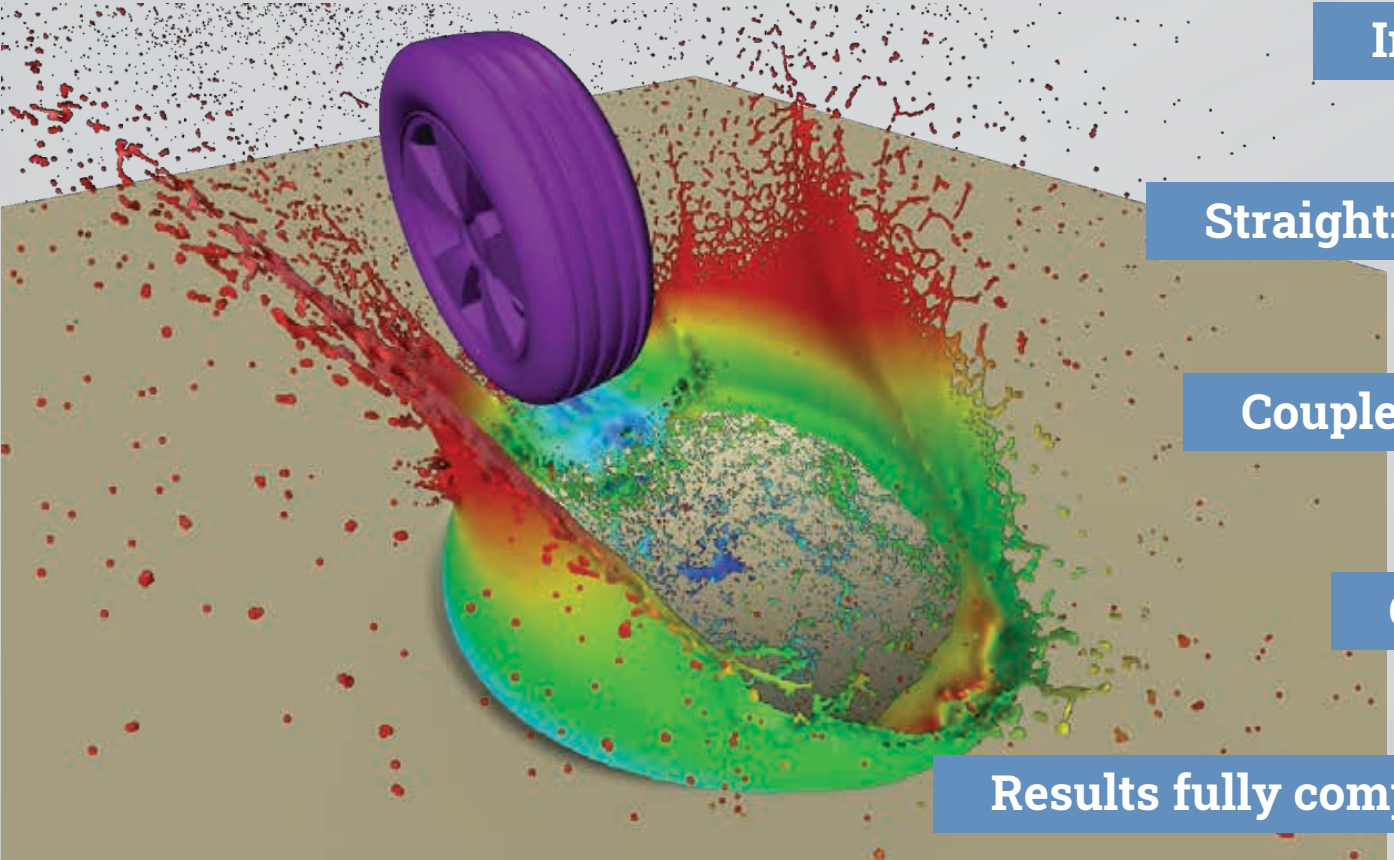
Optimization and quick verification of an electric vehicle side-frame design using Machine Learning methods
BETA CAE Systems
Friday, June 16, 11:30 – 12:00, Session 9A | Audimax

+Smoothed Particle Hydrodynamics (SPH) solver

Make effortless hydrodynamic simulations

Effortless hydrodynamic simulations with SPH solver

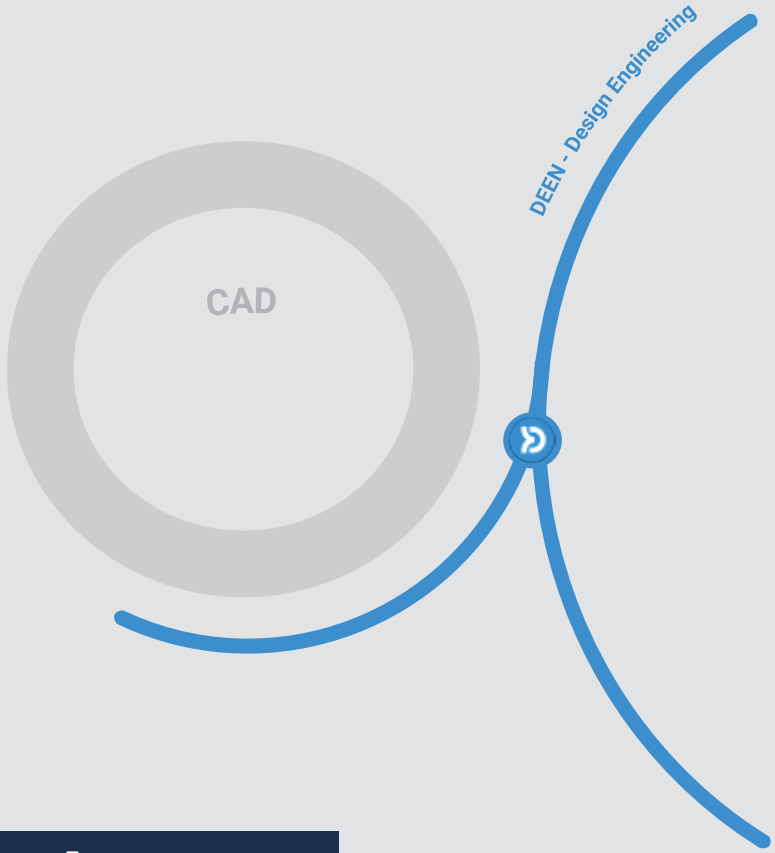
Easy and fast simulation of complex problems with large displacements and free surface fluid flows

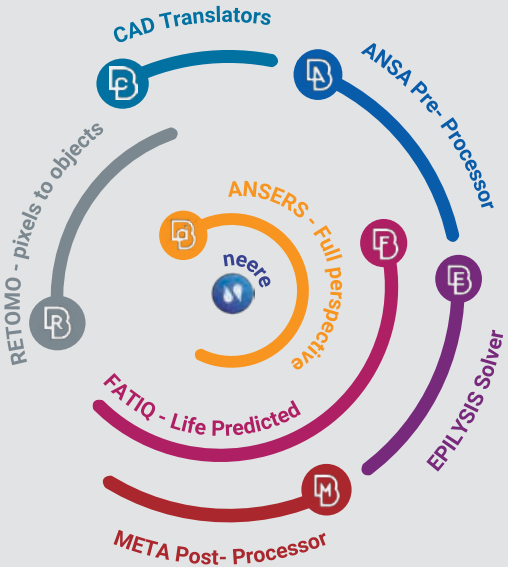


- Integrated in ANSA
- Straightforward & Simple
- Coupled with kinematics
- GPU implementation
- Results fully compatible with META

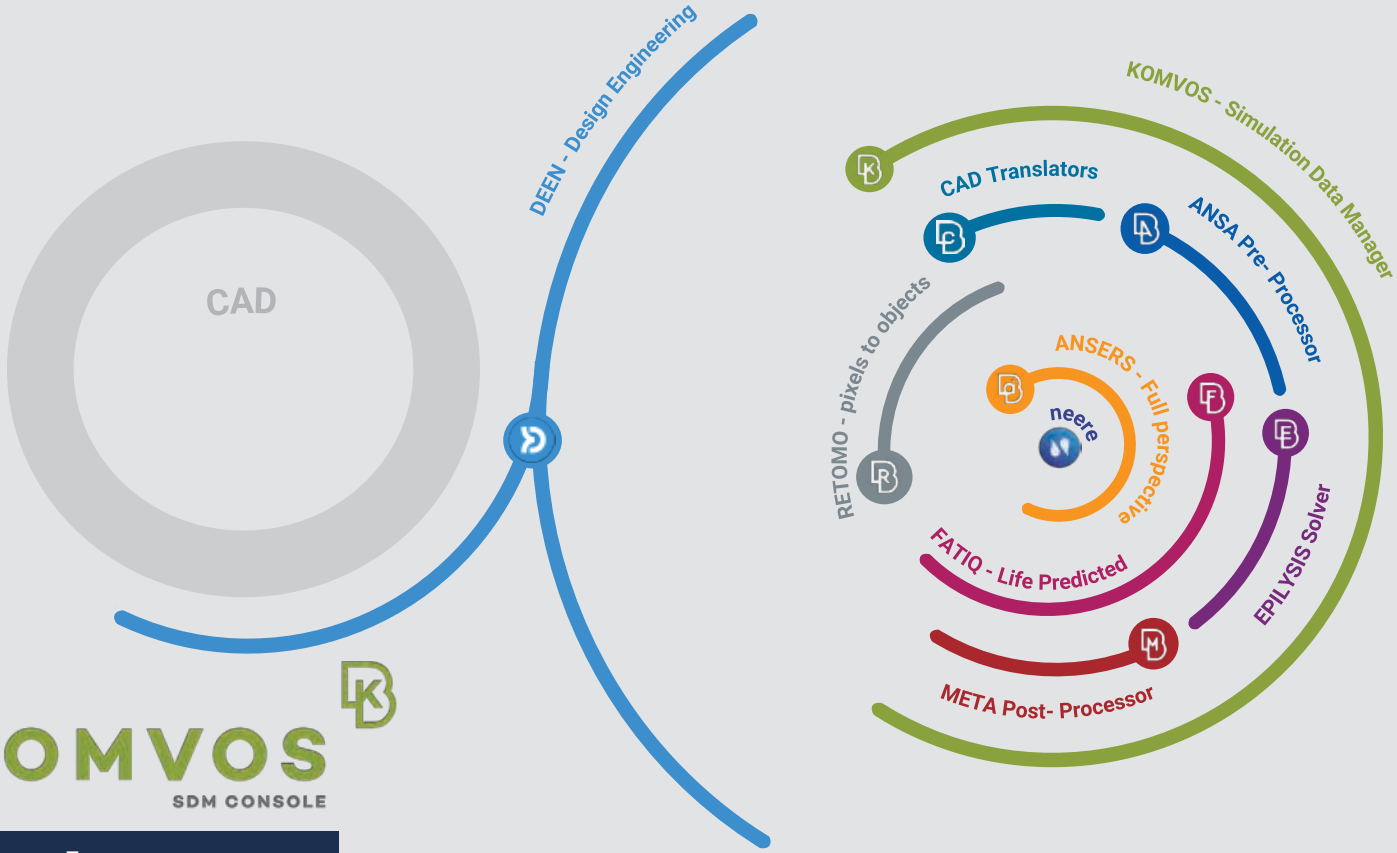
Effortless hydrodynamic simulations with SPH solver

Effortless hydrodynamic simulations with ANSA SPH solver
Thursday, June 15, 17:30 – 18:00, Demo Session 7G | Mars I





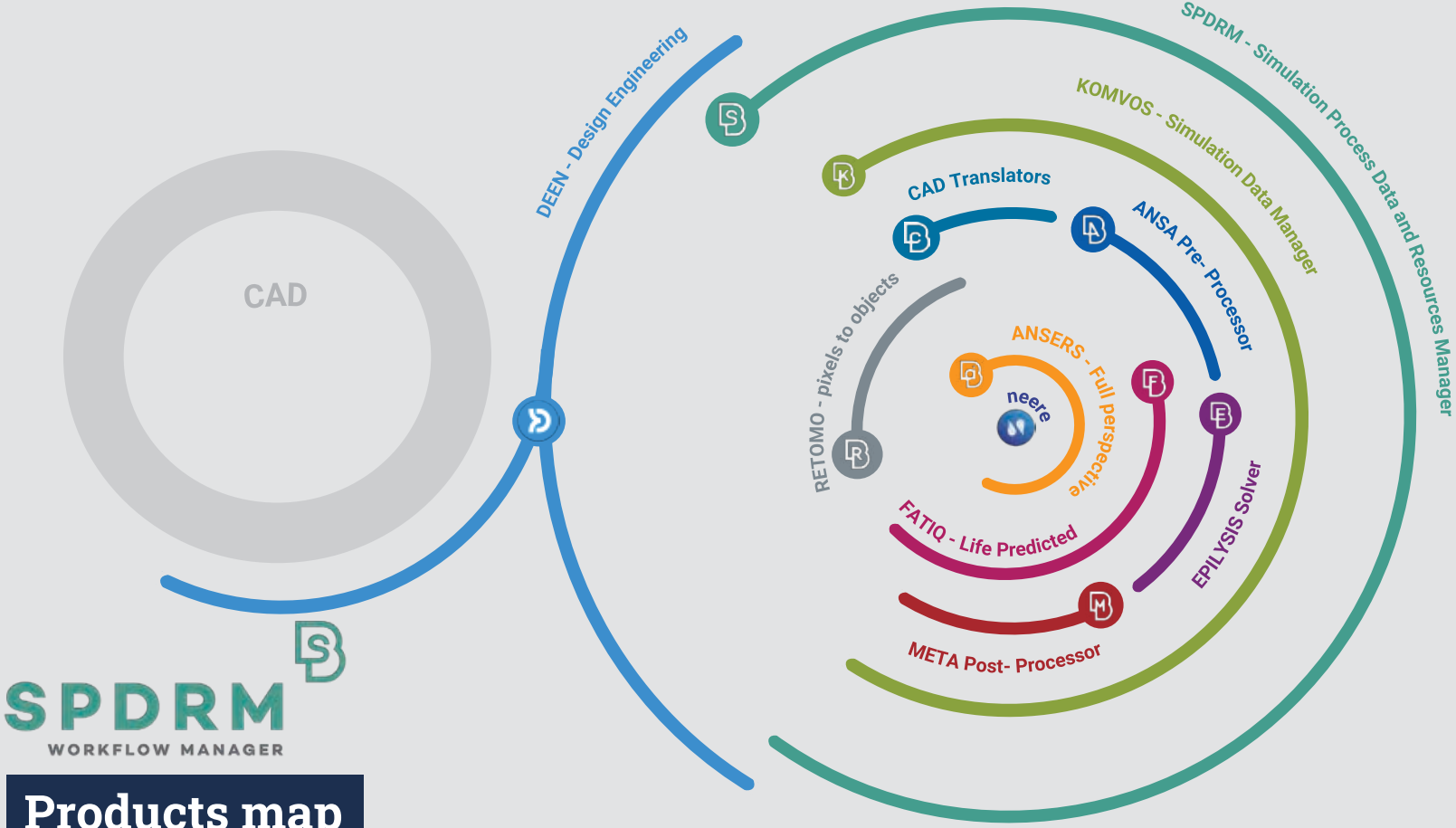
Products map



KOMVOS

SDM CONSOLE

Products map



SPDRM
WORKFLOW MANAGER

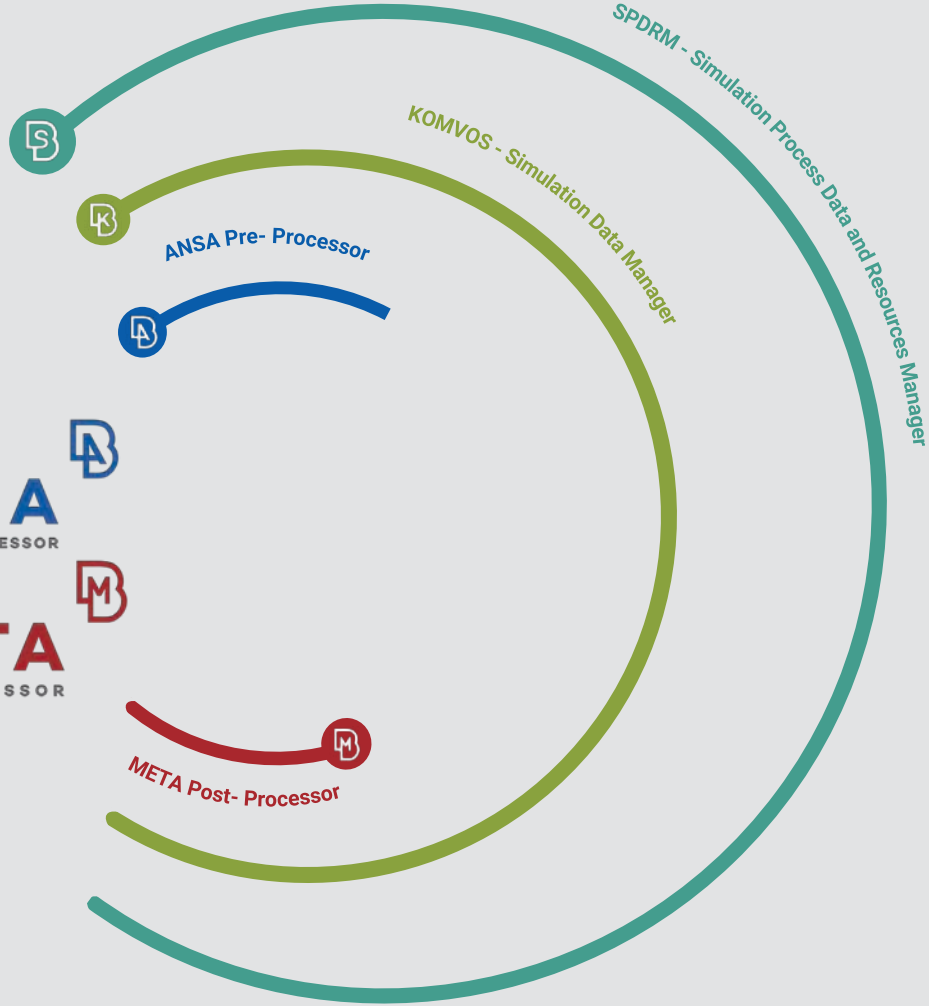
Products map

SPDRM
WORKFLOW MANAGER

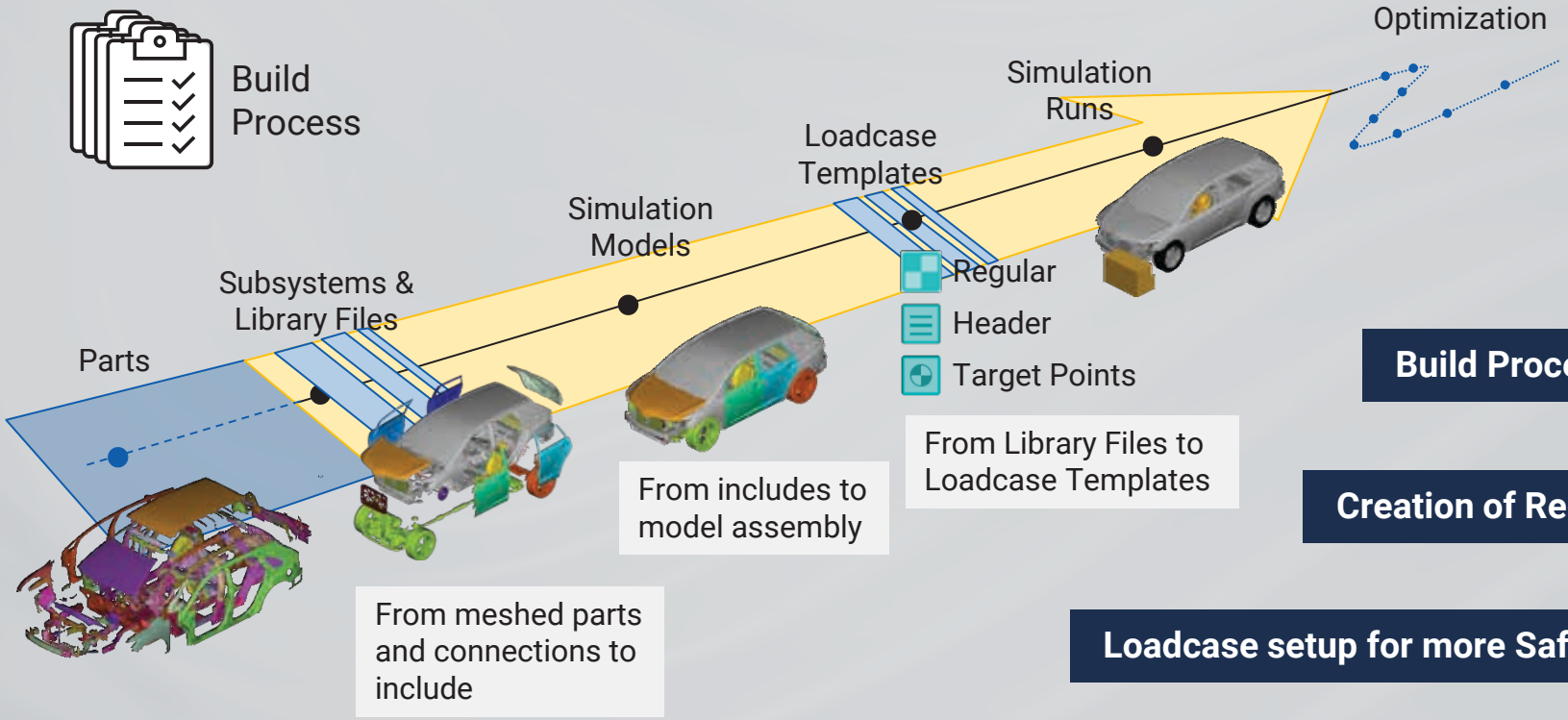
KOMVOS
SDM CONSOLE

ANSA
PRE PROCESSOR

META
POST PROCESSOR



Modular Environment – Streamlining Simulation Run preparation end-to-end



Build Processes for Parts

Creation of Reduced Models

Loadcase setup for more Safety loadcases

Optimization setup and DOEs

Unleash the potential of your simulation activity

Streamlining simulation run preparation with an end-to-end modular methodology
BETA CAE Systems
Thursday, June 15, 11:00 – 11:30, Session 5A | Audimax

Unleash the potential of your simulation activity

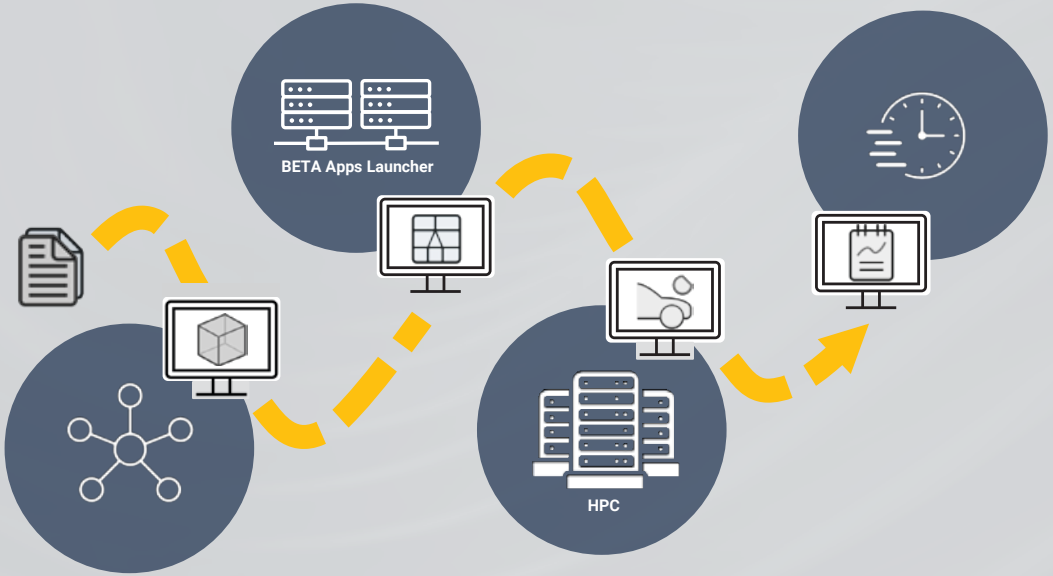
DEMO

Design Optimization in the Modular Environment: from setup to HPC submission and post-processing
Thursday, June 15, 17:00 – 17:30, Demo Session 7E | Venus I

DEMO

Data insights: Keeping track, discovering, process reviewing, and accelerating decision making
Thursday, June 15, 17:30 – 18:00, Demo Session 7E | Venus I

SPDRM – Unlocking the power of Process Management



- Cross-platform activities
- Run on remote resources
- HPC submission and monitoring
- Task scheduling

Simulations across borders: Multi-site collaboration with SPDRM

Effective and efficient collaboration among geographically dispersed teams

- Multiple remote sites
- Cloud-based topology
- File transfer optimization
- Site-to-site connection
- Local storage of sensitive data

Unleash the potential of your simulation activity

Unlocking the power of process management with SPDRM
BETA CAE Systems
Wednesday, June 14, 16:30 – 17:00, Session 3C | Jupiter

Simulations across borders: using SPDRM's multi-site collaboration to unite global teams
BETA CAE Systems
Wednesday, June 14, 17:00 – 17:30, Session 3C | Jupiter

Reintroducing KOMVOS as an SPDM desktop client

KOMVOS
SDM CONSOLE

for

SPDRM
WORKFLOW MANAGER

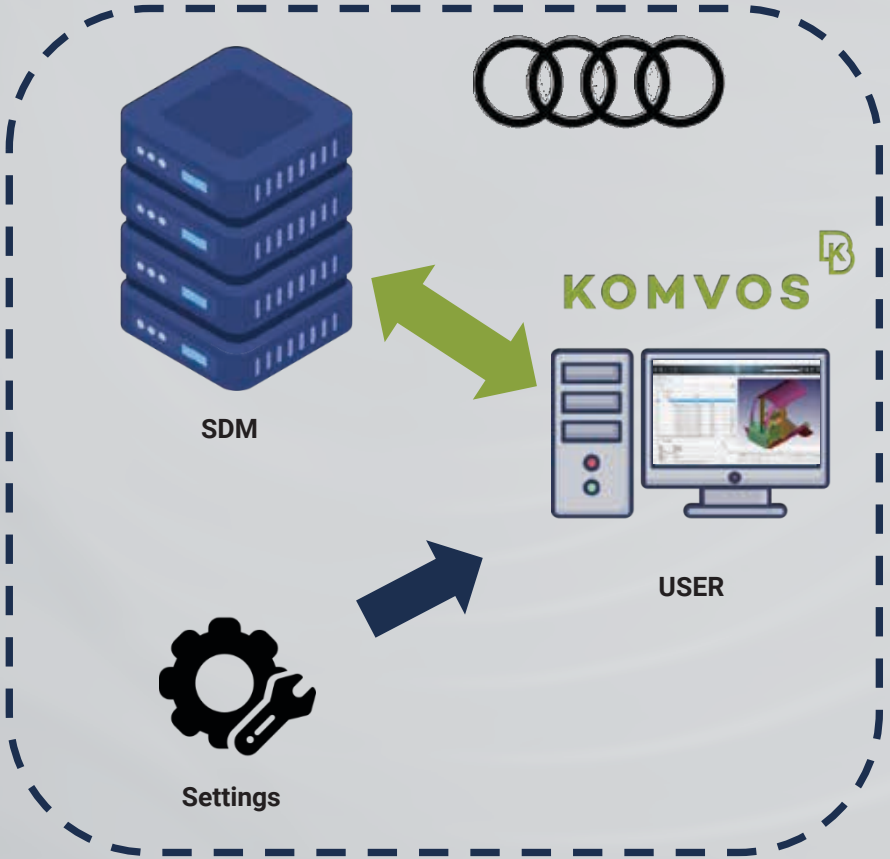
- Model Build coordinator
- Data search and navigation
- Process Management
- HPC Submission & Monitoring
- Results review & comparison
- Optimization Studies & ML
- Test Results review

Unleash the potential of your simulation activity

Reintroducing KOMVOS as a simulation data and process management desktop client
BETA CAE Systems
Wednesday, June 14, 16:00 – 16:30, Session 3C | Jupiter

Addressing challenges in the BiW model build-up process in AUDI AG

A robust –yet simplified– BiW build-up process, enabling process management and continuous communication between the users



SUPPLIERS

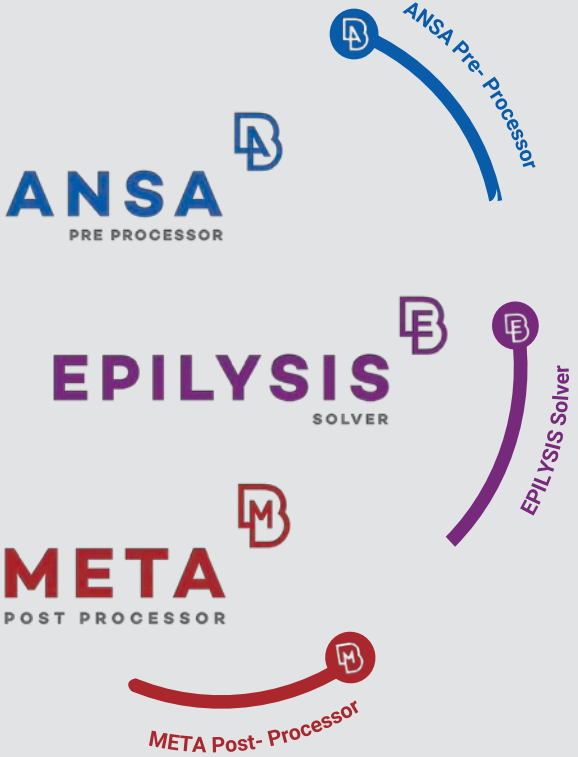
- Simplified process
- Eliminating errors
- Robust workflow
- Progress management
- Communication with users

Addressing challenges in the BiW model build-up process in AUDI AG

BETA CAE Systems

Thursday, June 15, 12:00 – 12:30, Session 5A | Audimax

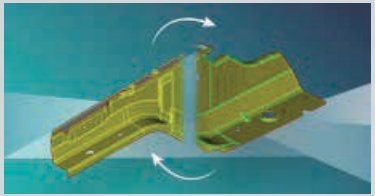
Products map

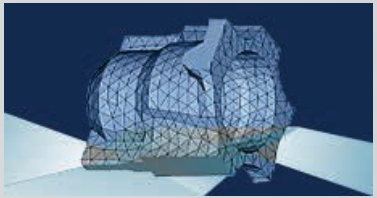

ANSA
PRE PROCESSOR
ANSA Pre- Processor
EPILYSIS
SOLVER
EPILYSIS Solver
META
POST PROCESSOR
META Post- Processor

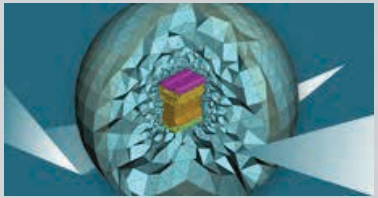
Solutions for ...

PDM to SDM


Assembly & Model Build


Unified Geometry & Mesh


Meshing


NVH


Durability & Composites

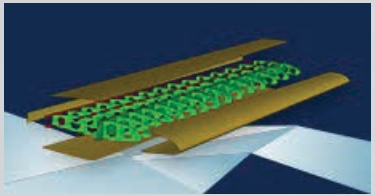

Results Mapping

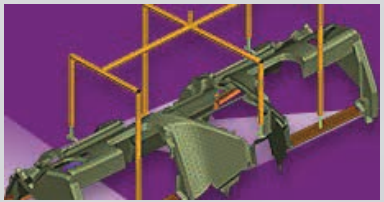

Crash & Safety

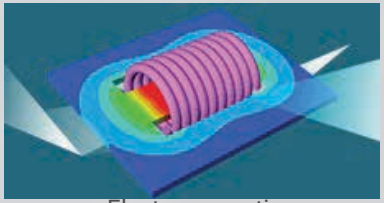

Stamping

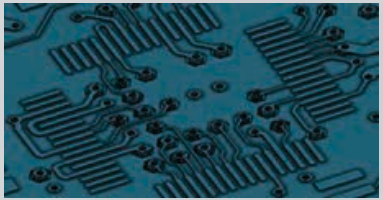

Multibody Dynamics

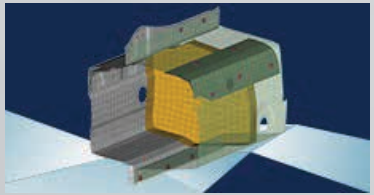

CFD

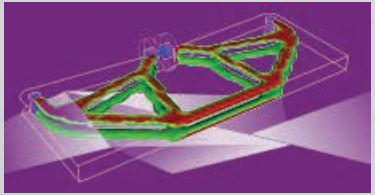

Aeroelasticity


Molding


Electromagnetics


Electronic CAD


Model Improvements & Parameterization


Optimization


Process Automation


User Productivity

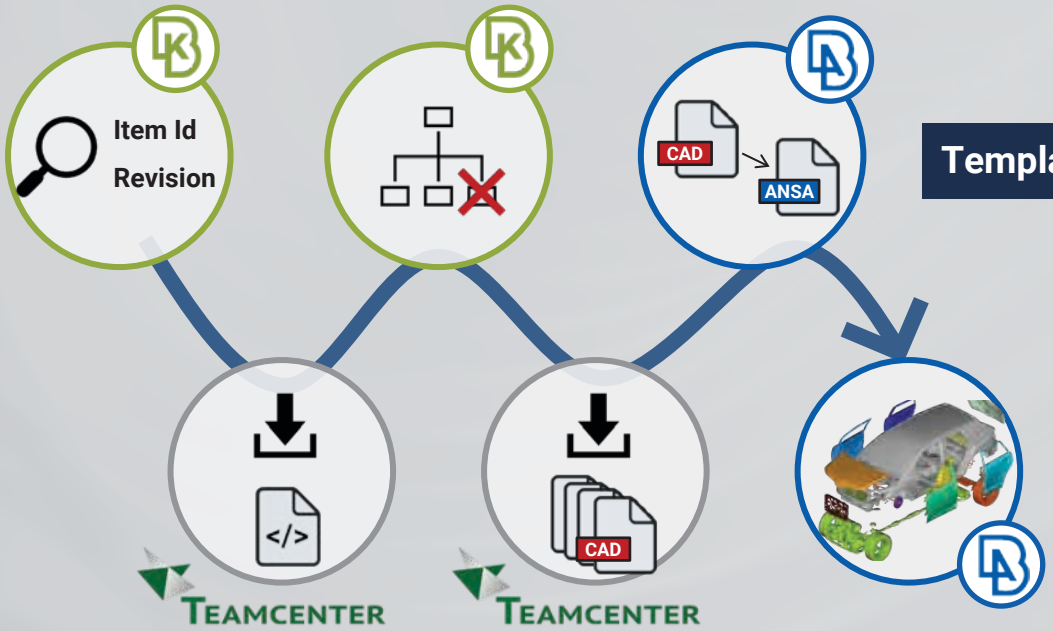

BETA Development infrastructure

Solutions for...

PDM to SDM

Streamlining data extraction from Teamcenter

Creating a robust and effective bridge between design (PDM/PLM systems) and simulation (SDM systems/CAE tools)



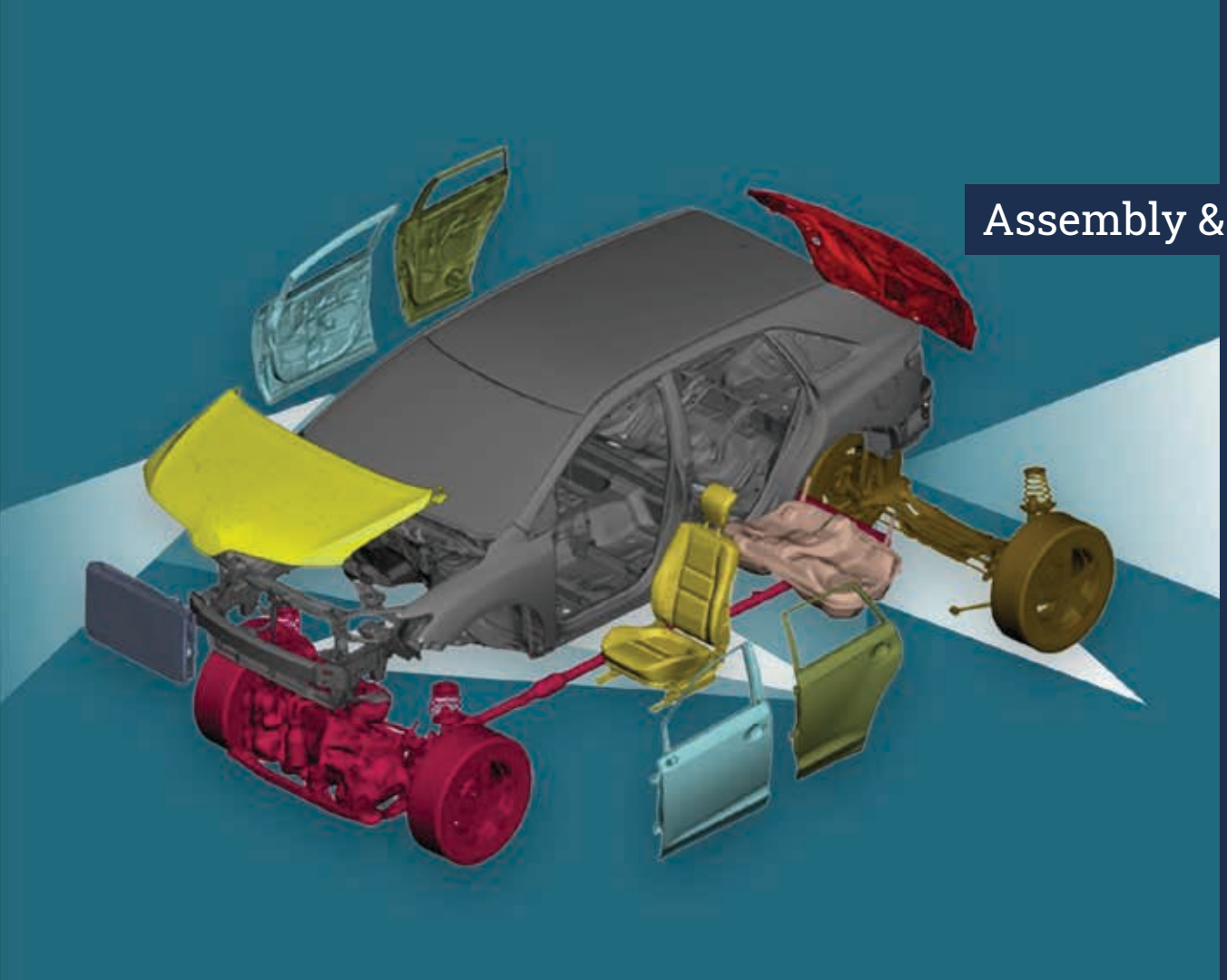
- TC plugin in KOMVOS and ANSA
- Template-driven CAD BOM to CAE Structure mapping
- Only download from TC new CAD data
- CAD2ANSA on local or remote resources
- Subsystem update in ANSA

Bridging the gap between Design and Analysis

Streamlining data extraction from Teamcenter:
Latest approaches to CAE Structure creation and maintenance

BETA CAE Systems

Wednesday, June 14, 17:30 – 18:00, Session 3C | Jupiter



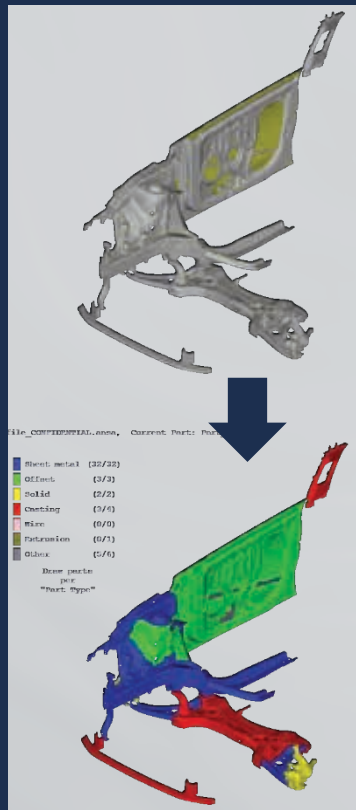
Solutions for...

Assembly & Model Build

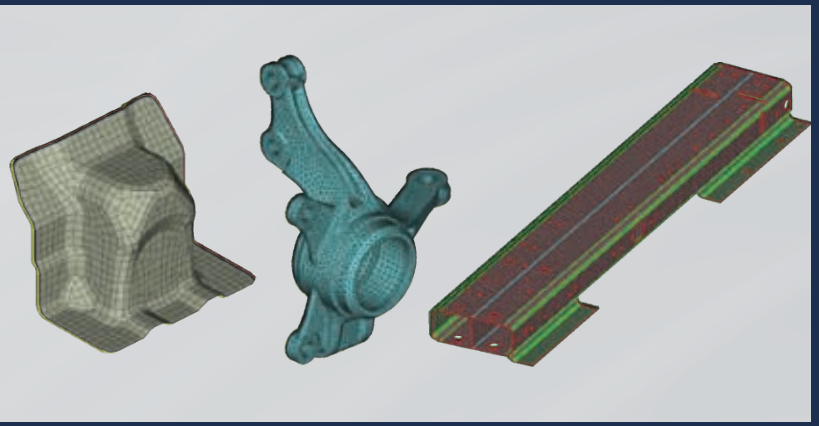
Revamping Model Build: AI and Part Build at the service of CAE modeling teams

Easily identify and prepare the parts for CAE analysis, in case of midsized vehicles (> 30000 parts)

Automatic identification of part type



Automatic build of parts according to part type



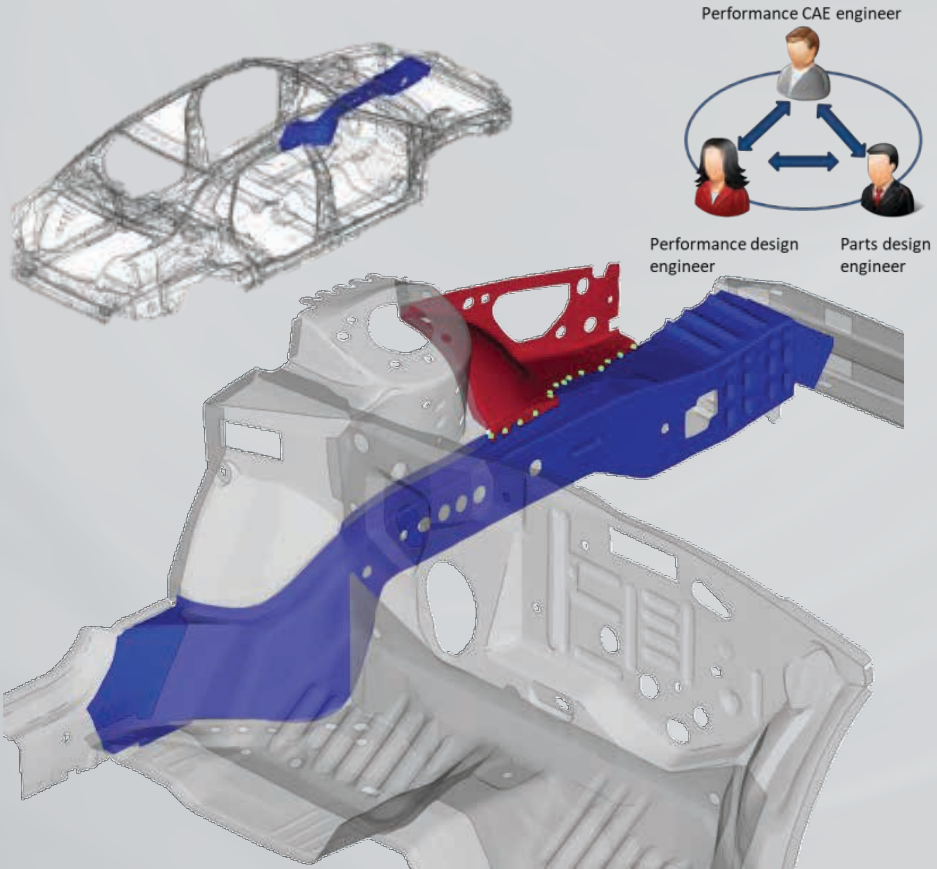
Machine Learning used in treatment of casting parts

Revamping assembly validation & Model Build

Revamping Model Build: AI and Part Build at the service of CAE modeling teams
Thursday, June 15, 16:00 – 16:30, Demo Session 7E | Venus I

Connections Navigator: A new approach to assembly validation

Reduce effort in communications related to welds' design among CAE Modeling, Engineering & CAD Designer teams



Navigate per Study part / Connectivity group

Mark & modify model's connections

Special draw modes

SPW:
Total Welds:
C.Groups: 102009 - 121003

Reporting features

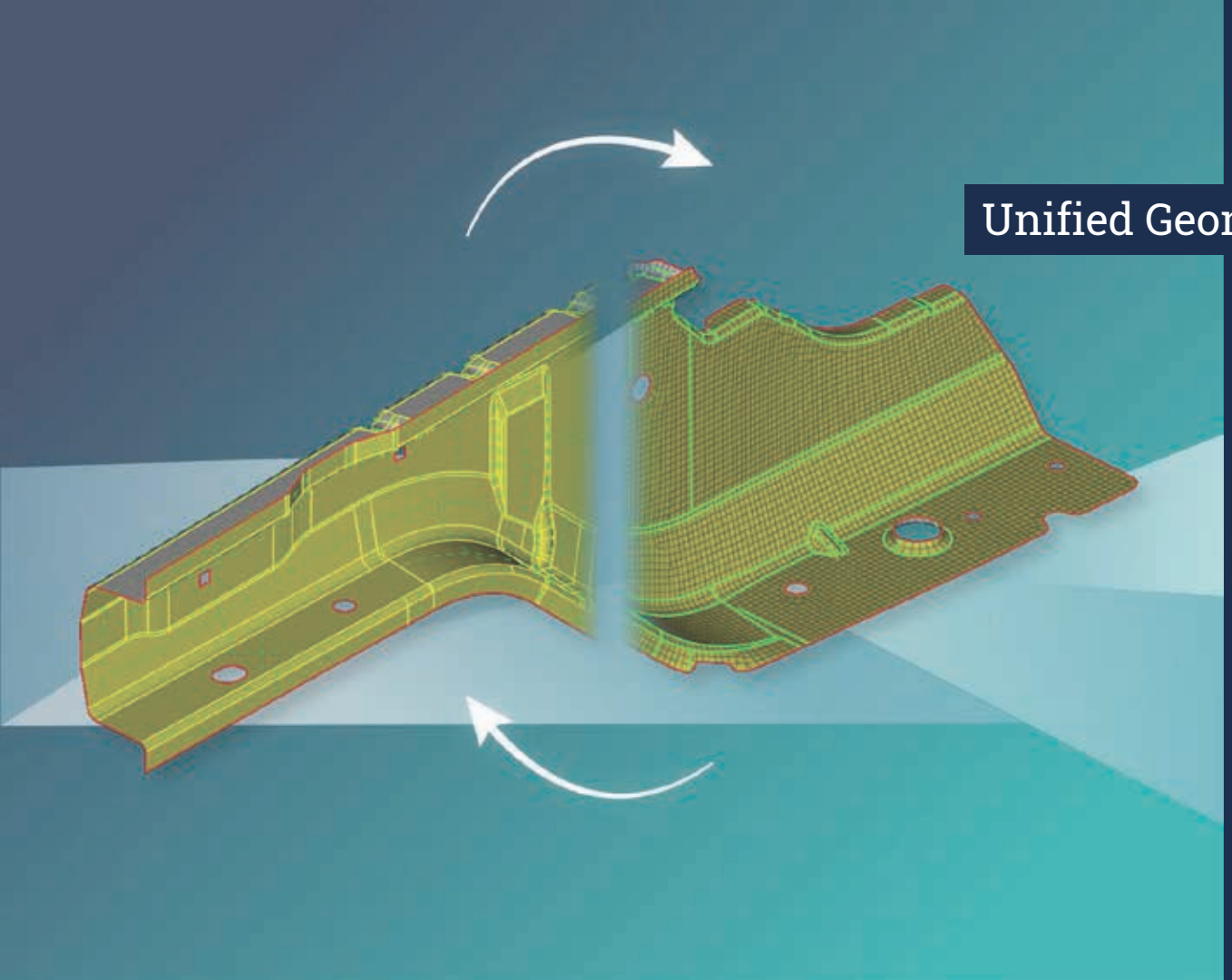
Module Id	Name
BIW_100...	BIW
	01_FRONT_MODULE
112000	01_RAIL FRONT L
112001	F-MC-SUBFRA
112009	RAIL-L-I
112007	RAIL-L-O
112002	RAIL_MIDDLE_
112003	RAIL_MIDDLE_
112005	RAIL_MIDDLE_
112008	RAIL_PLATE_2-
112006	RAIL_REINFOR

Revamping assembly validation & Model Build

Connections navigator: A new approach to assembly validation
Thursday, June 15, 17:00 – 17:30, Demo Session 7G | Mars I

Solutions for...

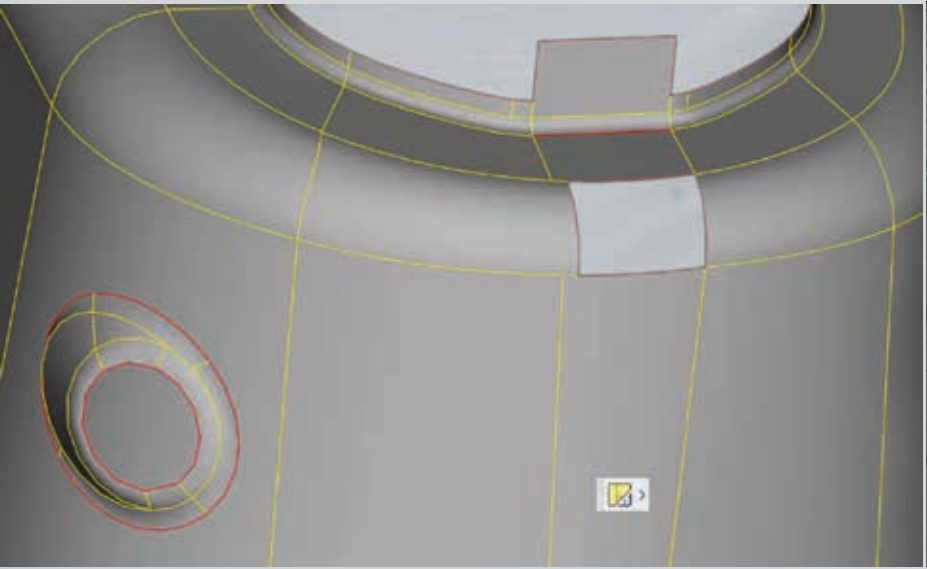
Unified Geometry & Mesh



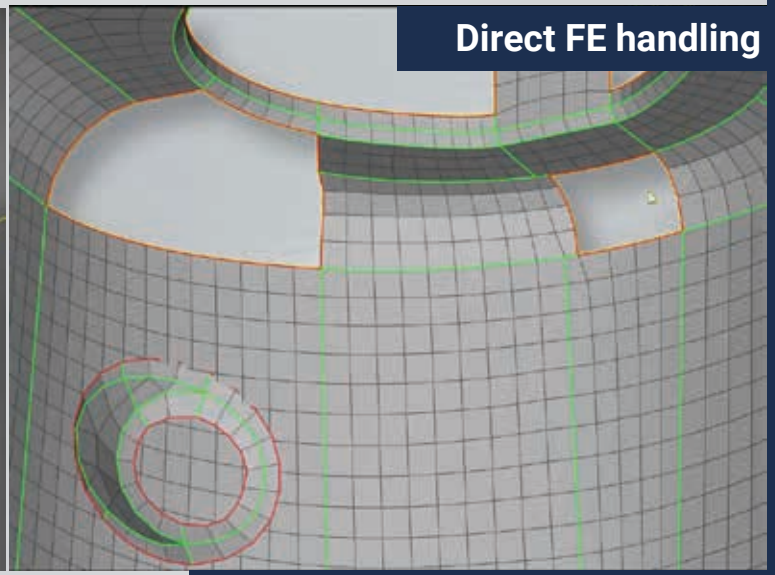
Unified Geometry & Mesh handling: A Game Changer

Directly work on the Geometry/ Mesh, without the need to constantly activating functions from the module menus

Geometry & Mesh manipulation in one function



Direct FE handling



Workflow-oriented functionality

Significant boost in productivity

Unified Geometry & Mesh handling: A Game Changer

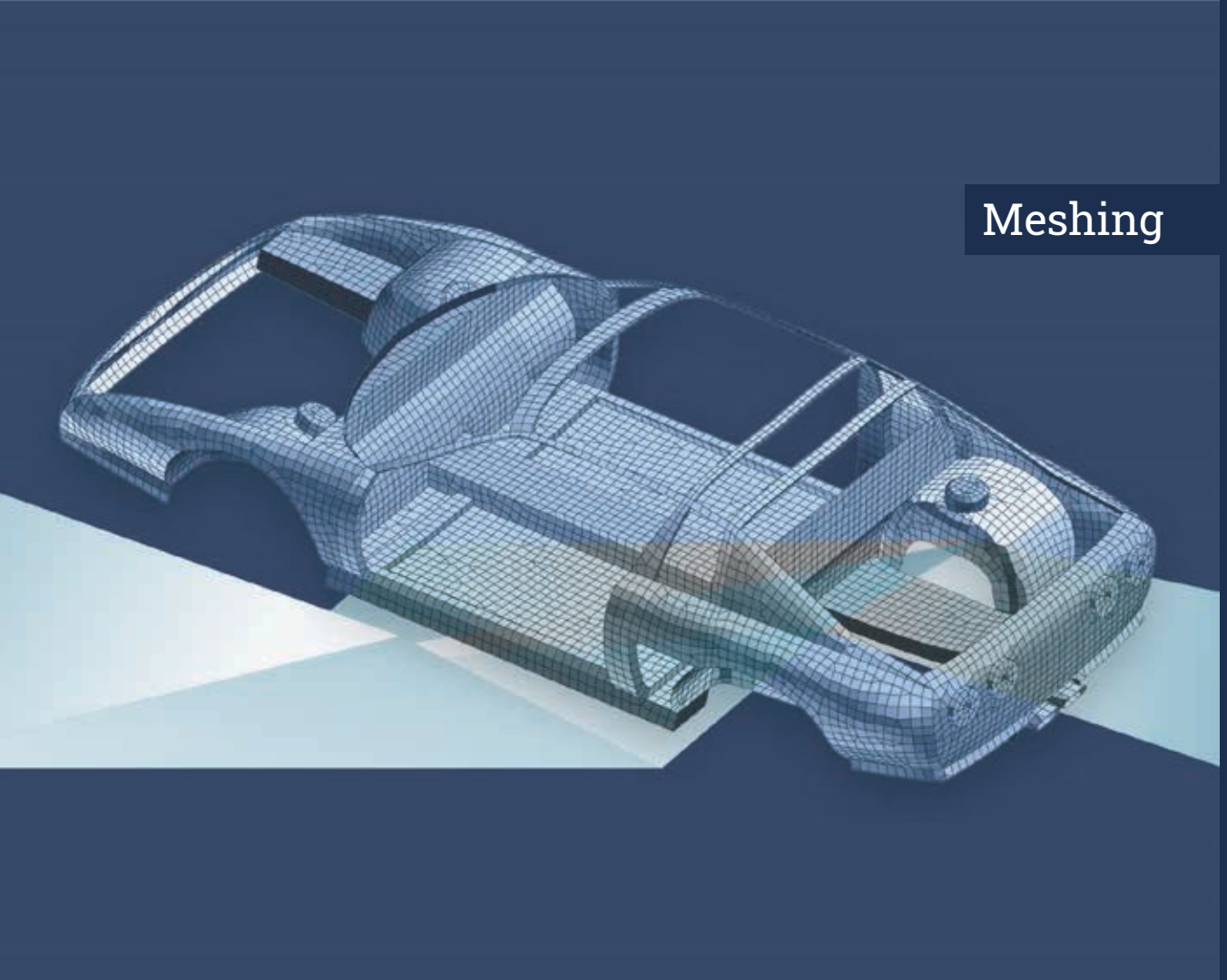
A new user experience in ANSA
BETA CAE Systems
Wednesday, June 14, 14:30 – 15:00, Session 2 | Audimax

DEMO

A new approach for Geometry & Mesh handling
Thursday, June 15, 11:00 – 11:30, Demo Session 5E | Venus I

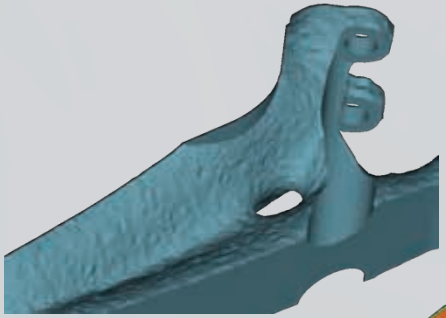
Solutions for...

Meshing

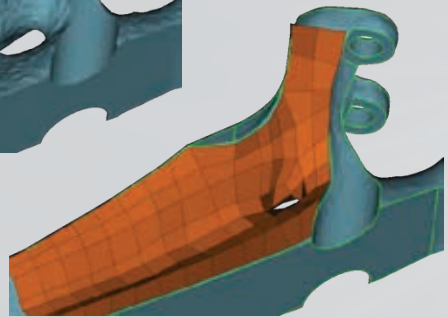


From mesh to SubDivision surfaces

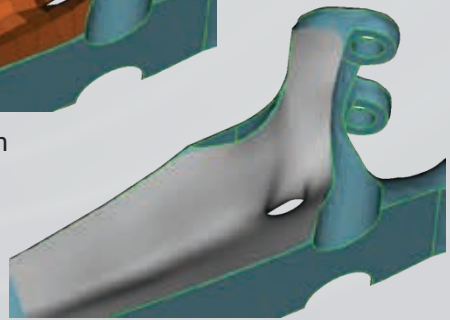
Create smooth surfaces from complex meshes (e.g. coming from topology optimization results or 3D scanners)



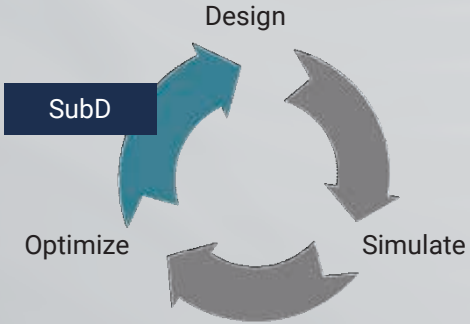
Optimization result



SubD control mesh



SubD surface



Modeling technique for creating smooth and high-resolution surfaces

A new way in ANSA to create CAD geometry from mesh

Applicable for handling:

- **Optimization results**
- **Scanned data**

Bridges the CAE-to-CAD gap

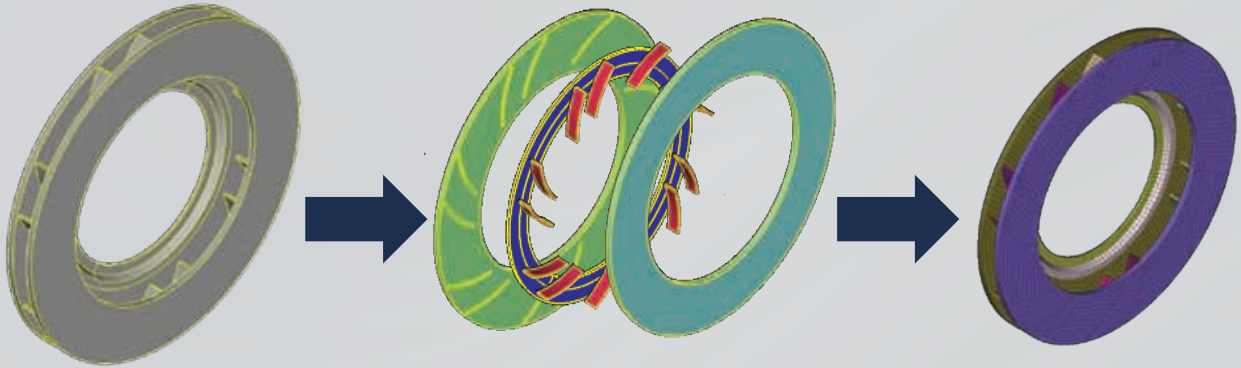
Generating the perfect mesh

From complex meshes to smooth surfaces: the new SubD approach
Thursday, June 15, 17:30 – 18:00, Demo Session 7F | Venus II

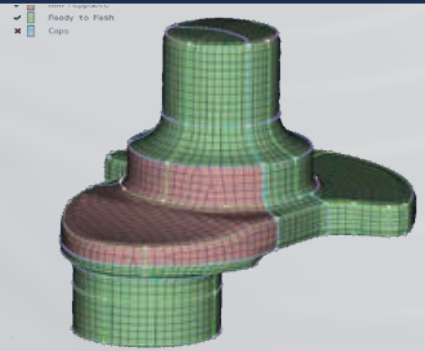
Structured meshing: Challenges and solutions

Fast & easy Hexa and Penta mesh, including more parts and keeping as much detail as possible

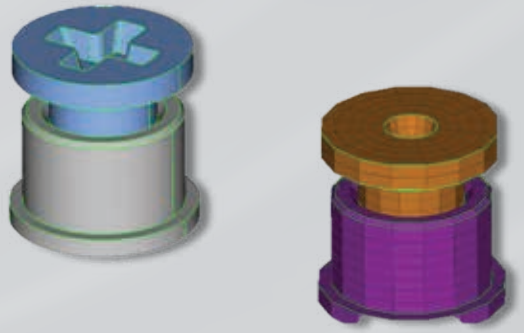
MapBlock: Automatic identification and meshing of mappable areas



Volumes decomposition



Easy treatment and modification of revolute meshes

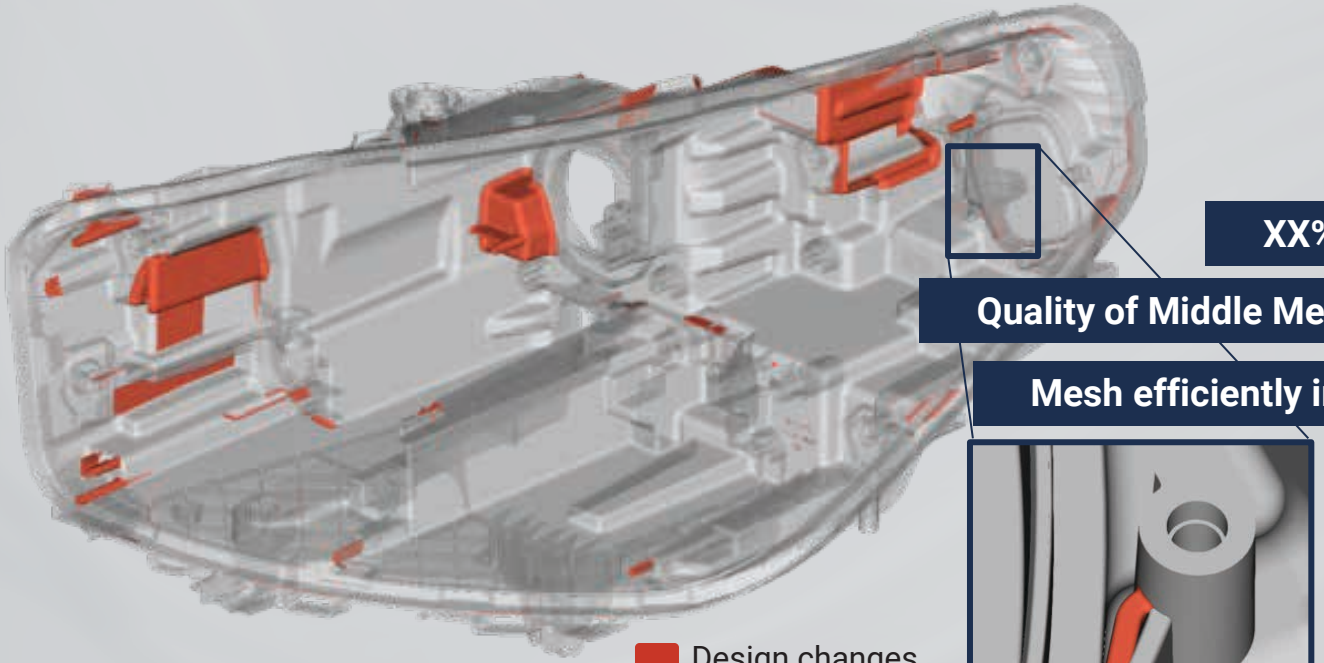


Generating the perfect mesh

Structured meshing: Challenges and solutions
Thursday, June 15, 12:30 – 13:00, Demo Session 5E | Venus I

Efficient Middle Meshing: BMW injection molding part

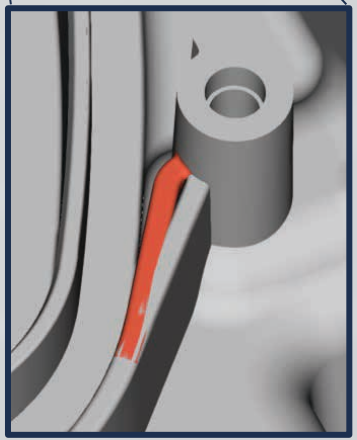
Reduce the cost and efficiently handle the design changes for the meshing of molded part designs



XX% reduction of meshing time

Quality of Middle Mesh assured with objective criteria

Mesh efficiently inherited between design versions



Generating the perfect mesh

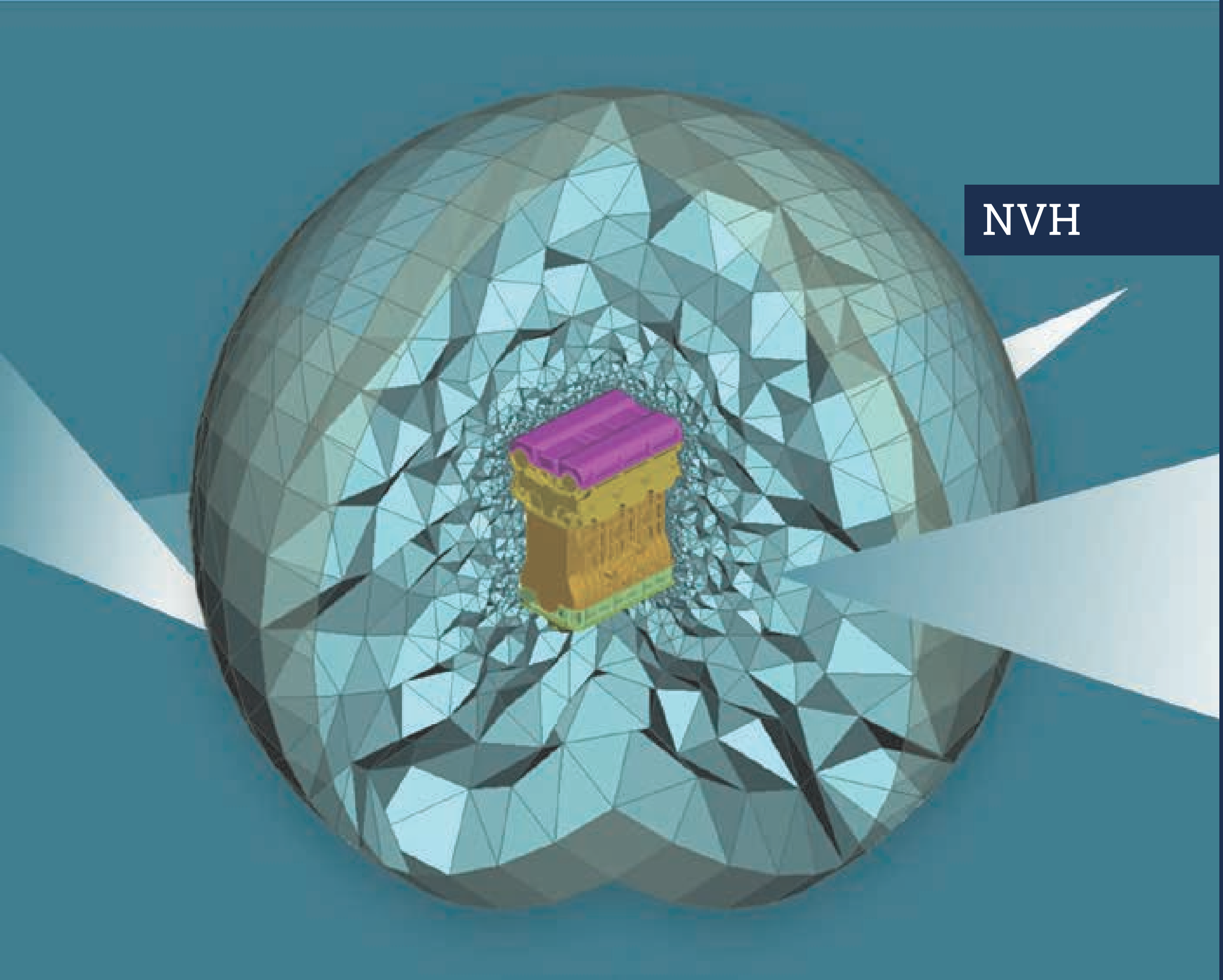
Efficient middle meshing - A benchmark on a BMW headlight housing part
BETA CAE Systems
Wednesday, June 14, 17:00 – 17:30, Session 3D | Saturn

Efficient middle meshing
Thursday, June 15, 12:00 – 12:30, Demo Session 5E | Venus I

Generating the perfect mesh

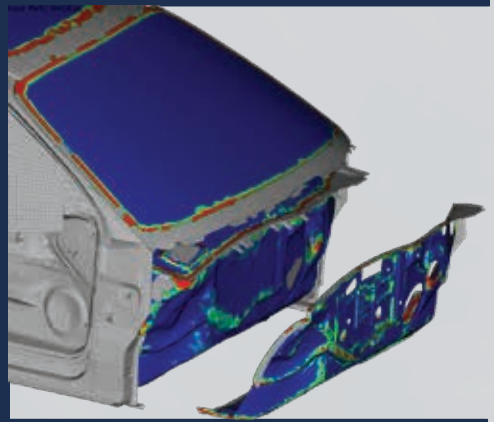
Understand and exploit the capabilities of Batch Meshing
Thursday, June 15, 11:30 – 12:00, Demo Session 5E | Venus I

Solutions for…

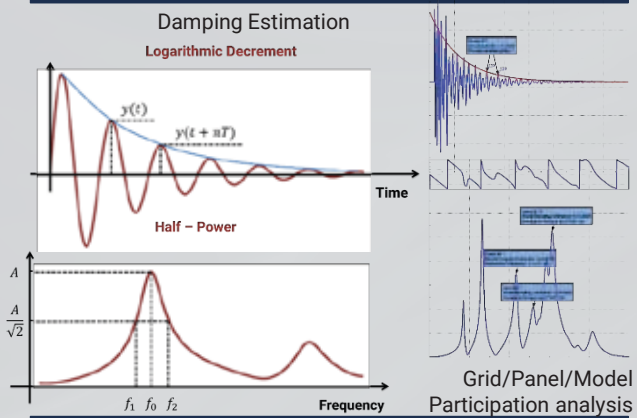


Reduce noise – Increase comfort

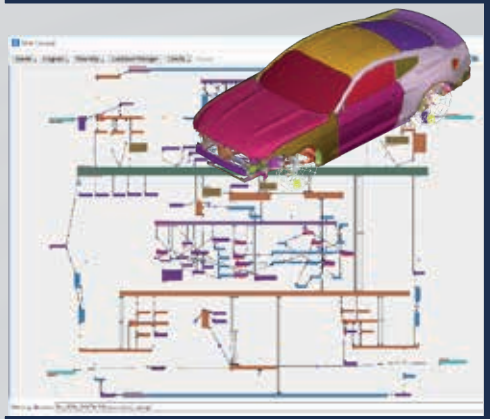
Vibroacoustic coupling



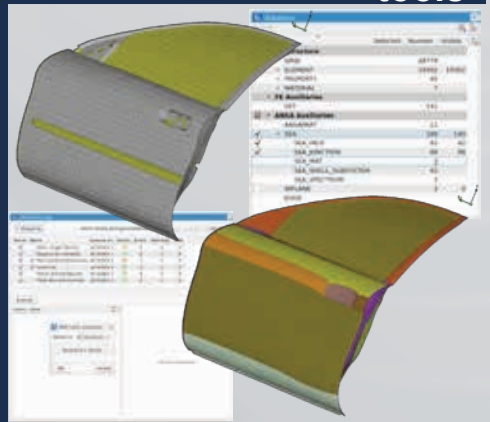
New tools in META



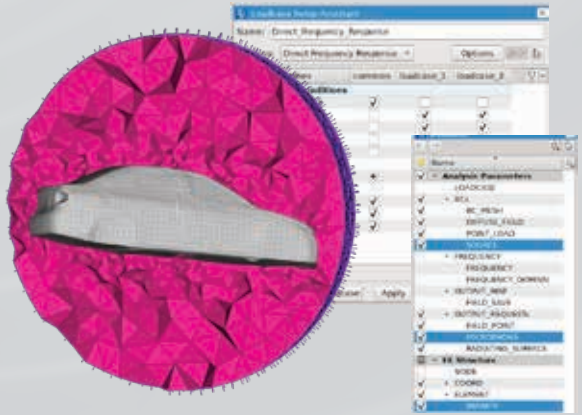
NVH-Console Developments



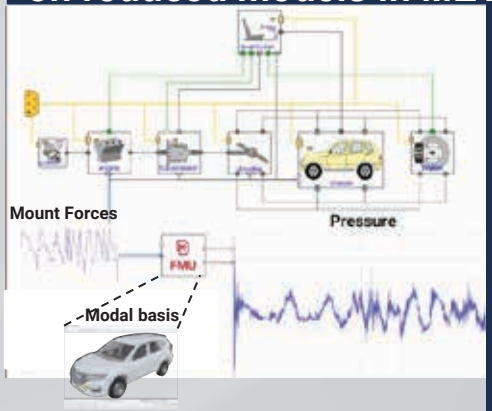
Statistical Energy Analysis tools



ANSA for ACTRAN



Calculations based on reduced models in META



Reduce noise – Increase comfort

Latest and future developments in NVH
BETA CAE Systems
Thursday, June 15, 16:00 – 16:30, Session 7C | Jupiter

Comparison of the numerical accuracy of Superelements and FRF Assembly
BETA CAE Systems
Thursday, June 15, 17:00 – 17:30, Session 7C | Jupiter

Vibroacoustic Coupling: a new approach
BETA CAE Systems
Thursday, June 15, 17:30 – 18:00, Session 7C | Jupiter

DEMO

FMI/FMU: Making detailed CAE simulation models accessible to all Engineers
Thursday, June 15, 11:30 – 12:00, Demo Session 5G | Mars I

DEMO

New optimization capabilities in NVH-Console
Thursday, June 15, 14:00 – 14:30, Demo Session 6F | Venus II

DEMO

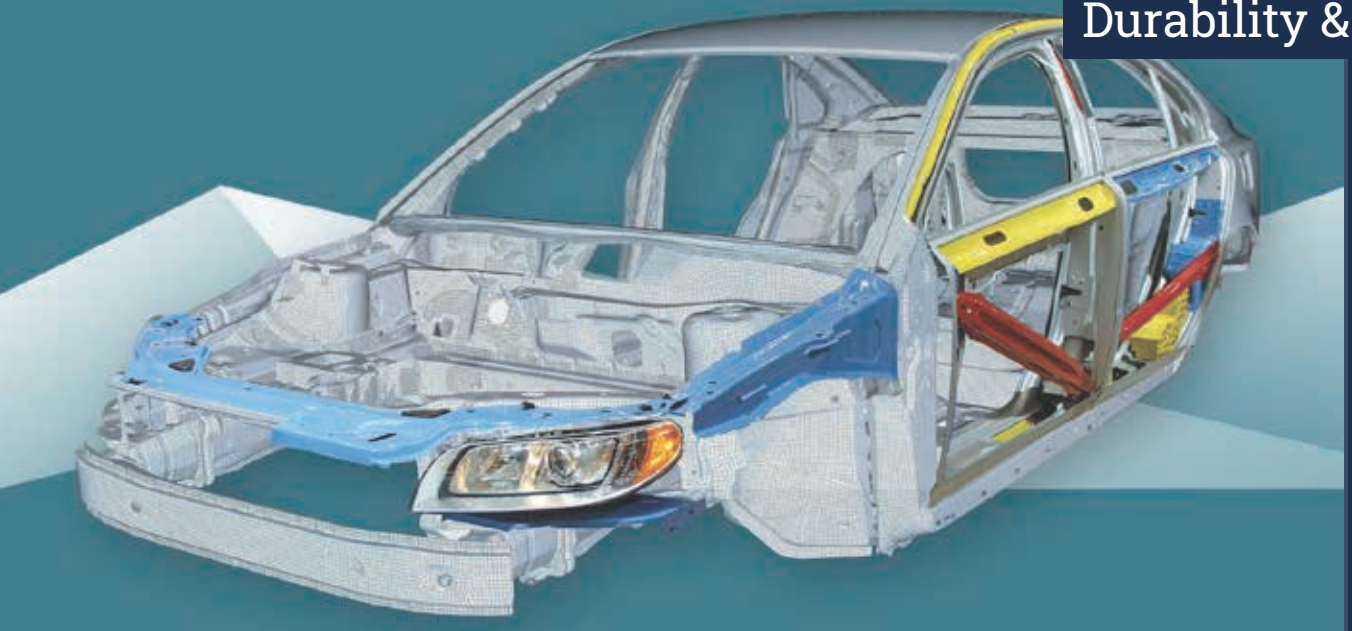
Introducing Statistical Energy Analysis support in ANSA
Thursday, June 15, 14:30 – 15:00, Demo Session 6F | Venus II

DEMO

ANSA for ACTRAN
Friday, June 16, 11:00 – 11:30, Demo Session 9G | Mars I

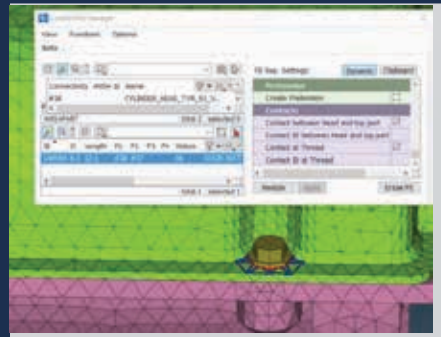
Solutions for...

Durability & Composites

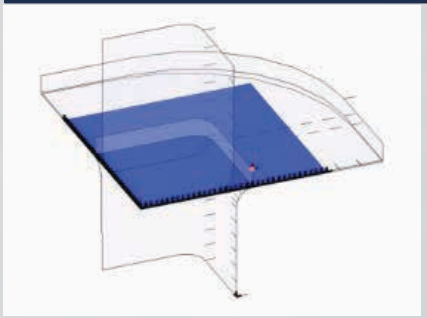


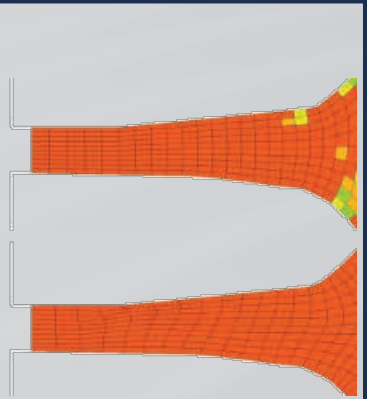
Designing high endurance products

Complete modeling of bolts

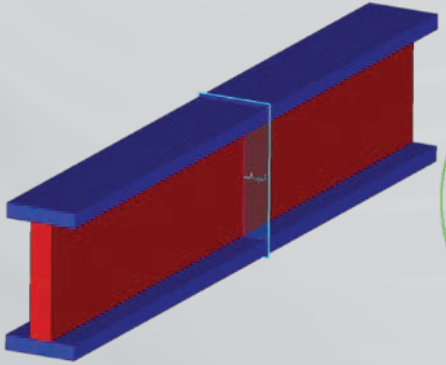


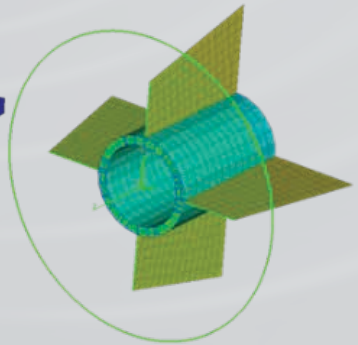
Continuous support of solvers techniques



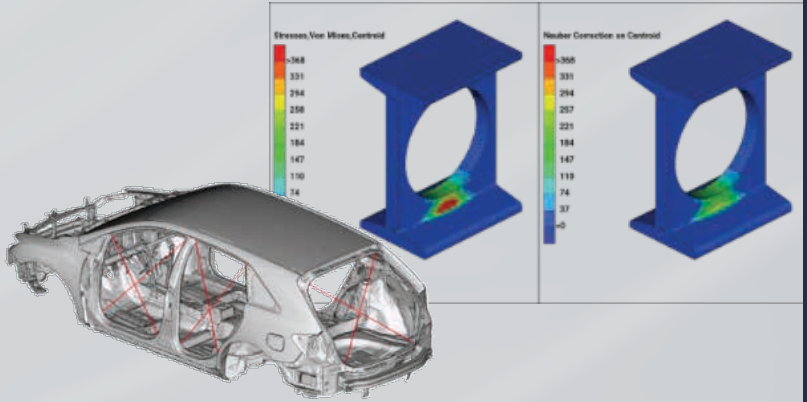


Calculation of complex cross-sections



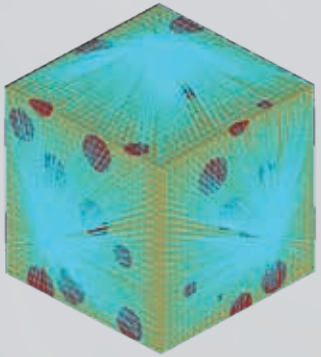


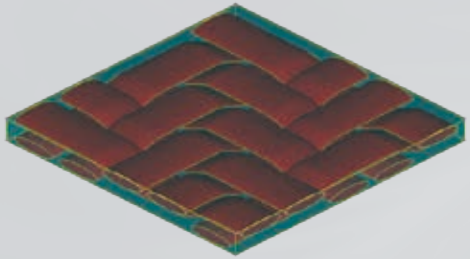
Incorporation of new durability methods in META

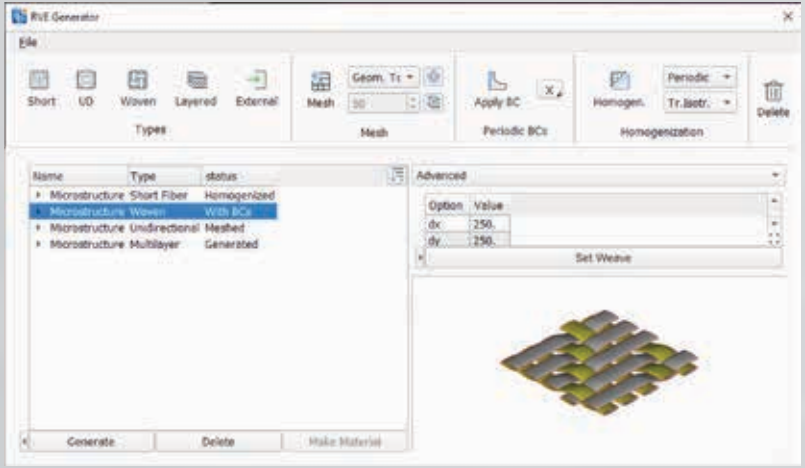


Optimize your fiber reinforced laminated composite products

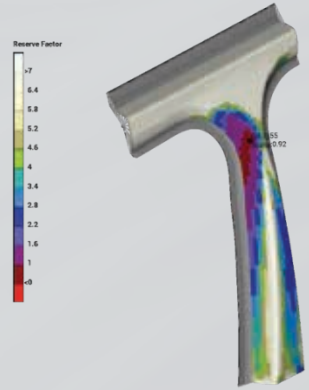
Reinforced RVE treatment

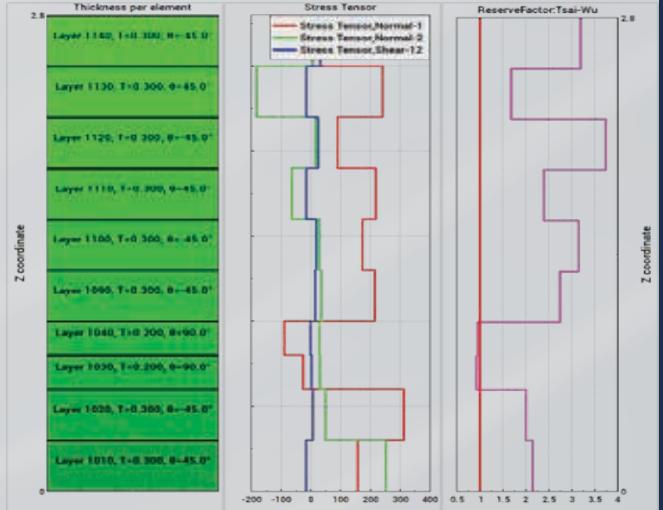






Full support of Ansys Laminates

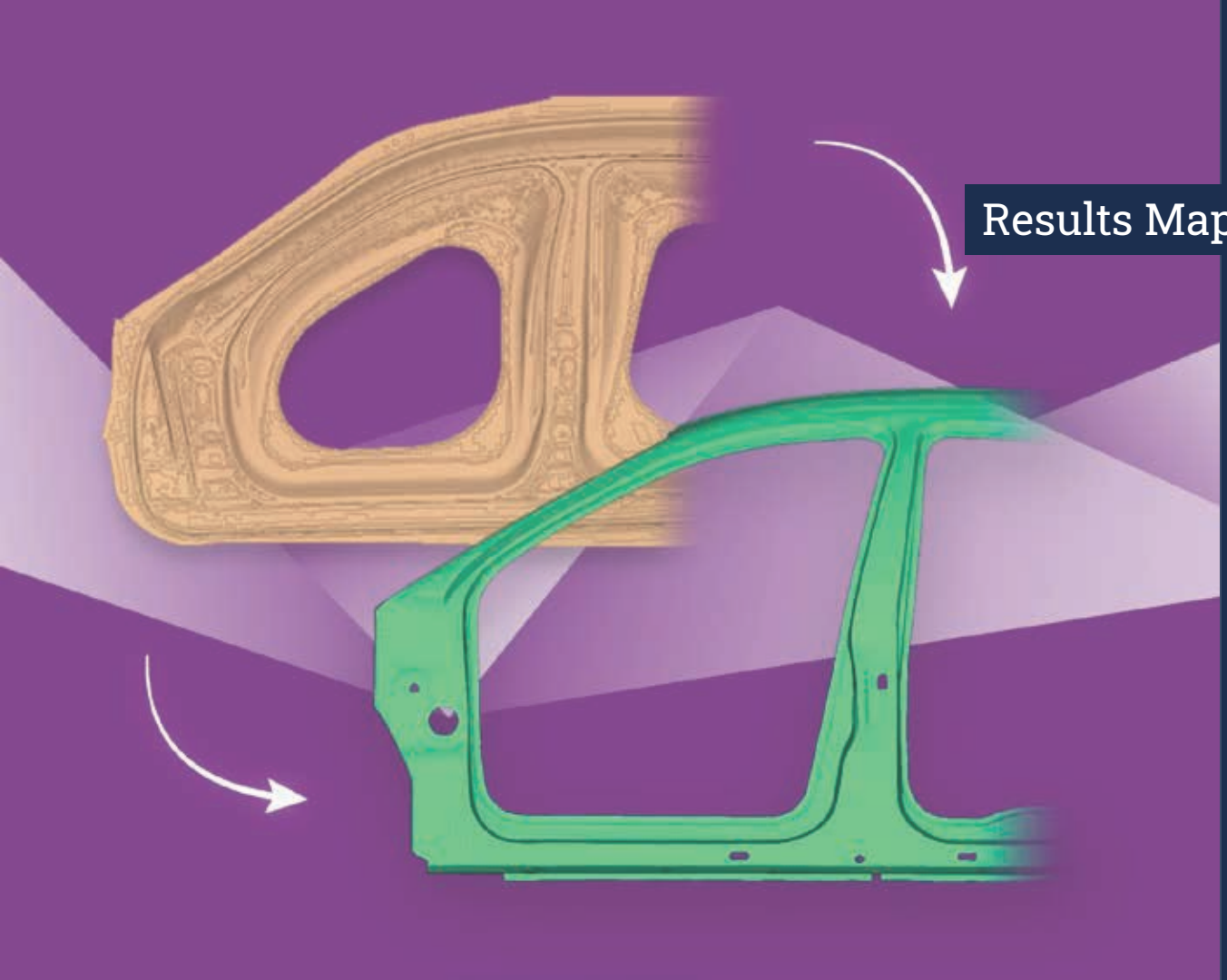




Employ the right tools for Durability & Composites modeling

Latest and future developments in simulations for durability and composites materials-made structures
BETA CAE Systems
Thursday, June 15, 12:00 – 12:30, Session 5C | Jupiter

Introducing the redesigned Representative Volume Element (RVE) Generator Tool
Thursday, June 15, 15:00 – 15:30, Demo Session 6E | Venus I

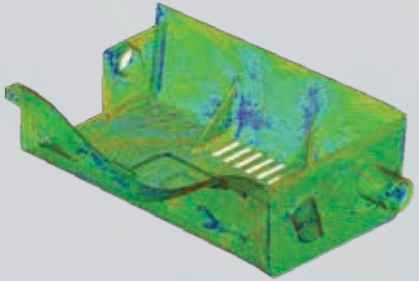


Solutions for...

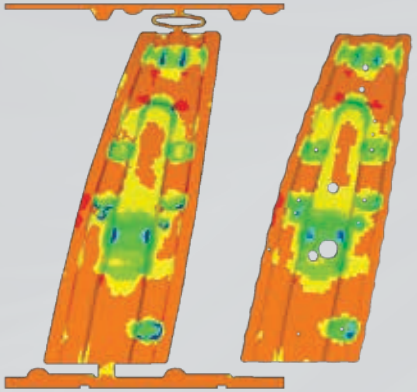
Results Mapping

Unleashing the full potential of Mapping applications

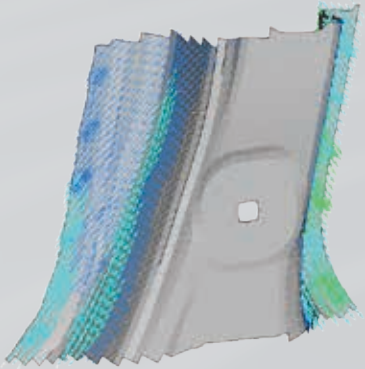
Transfer data related to...



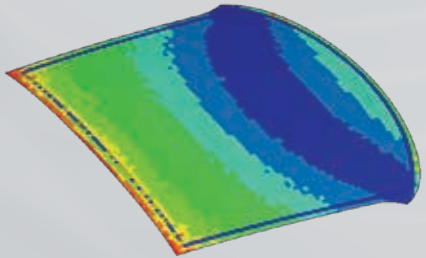
Thinning



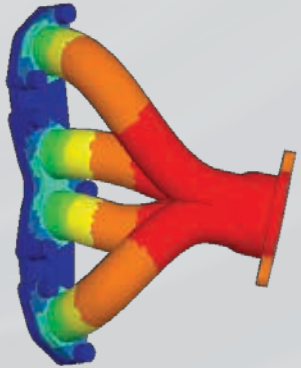
Stresses & Plastic Strains



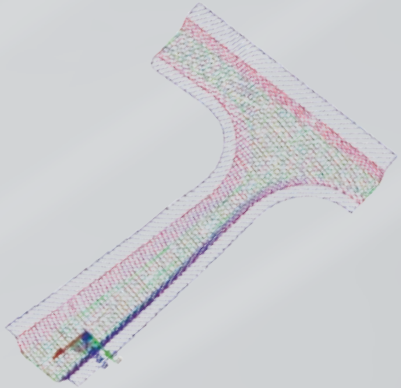
Pressure Distributions



Nodal Temperatures

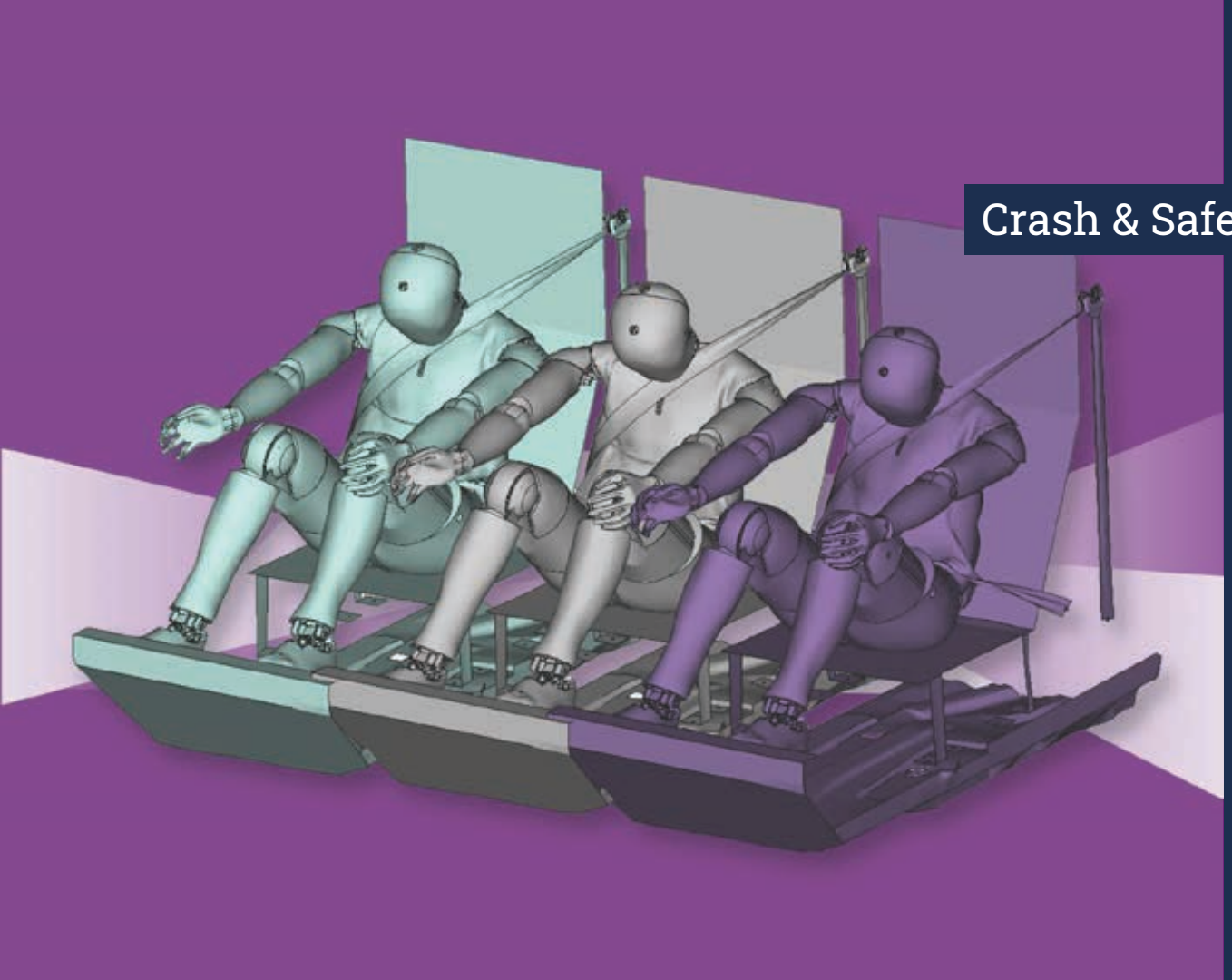


Material Orientations



Unleashing the full potential of Mapping applications

Simulation coupling and transferring of results across calculations
Wednesday, June 14, 17:00 – 17:30, Demo Session 3F | Venus II

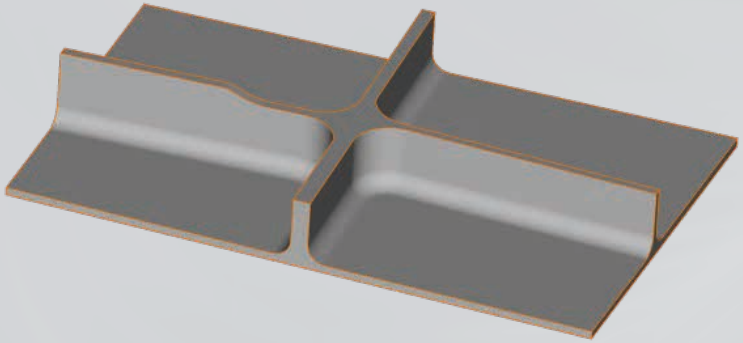


Solutions for...

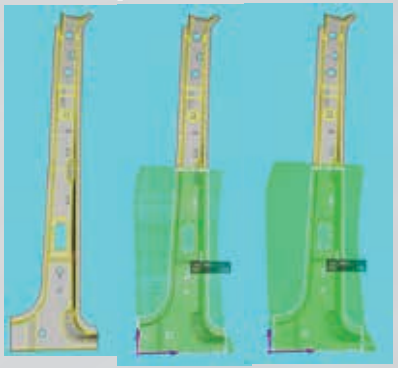
Crash & Safety

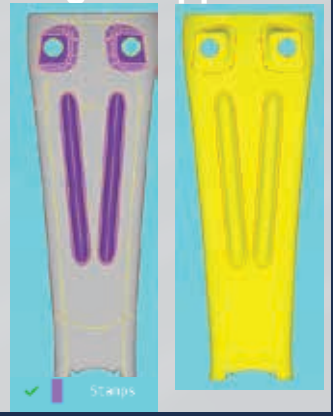
Unique features & Cutting-Edge technology for Crash solvers

*IGA keyword family



Trimmed patch IGA creation, with optional feature manager support





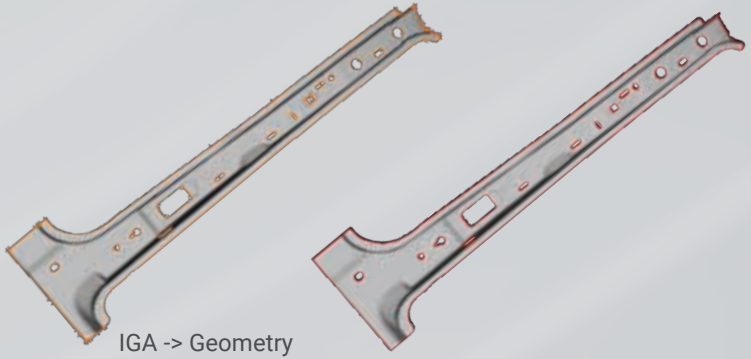
Geometry -> IGA -> IGA DENSE PATCH

IGA shell quality metrics

```
IGA_SHELL: 1
 B-Spline surface [ 162 x 54 ], order ( 4 , 4 )
                    Minimum    Average    Maximum
S-span       :       0.5133     2.1342
T-span       :       1.1931     2.1743

Negative Jacobian areas :
 2569.910510, 887.439579, 974.2
 2569.170565, 887.482502, 973
 2571.159950, 887.356148, 97
```

Conversion from IGA to Geometry



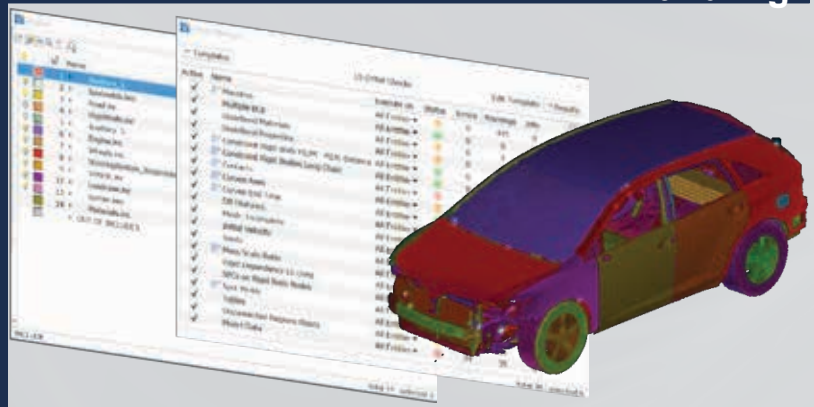
IGA -> Geometry

Unique features & Cutting-Edge technology for Crash solvers

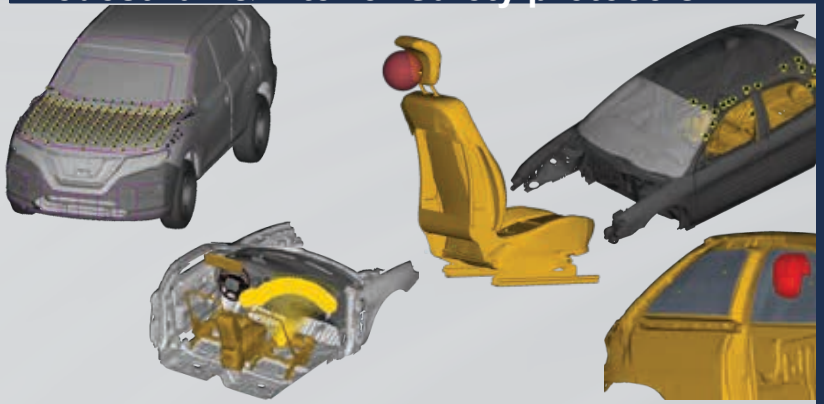
Methods and Tools for IGA models for LS-DYNA
BETA CAE Systems
Thursday, June 15, 12:30 – 13:00, Session 5D | Saturn

Complete simulation environment for all Safety protocols

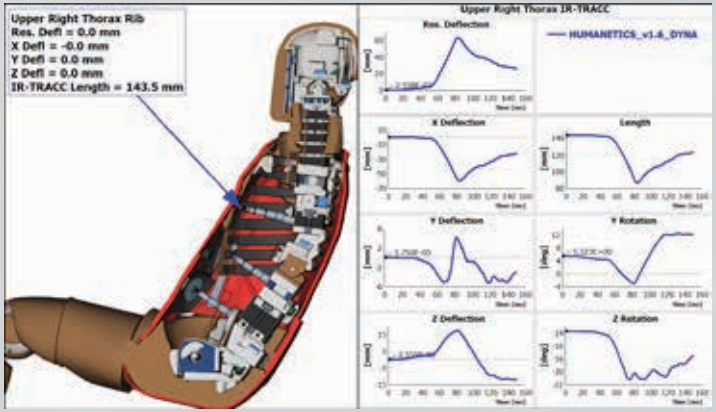
Advancements in Crash Model Editing & Handling



Continuous updates of Pedestrian & Interior Safety protocols



Updates in ATDs, seat positioning and restraining



Complete simulation environment for all Safety protocols

Latest and future developments in Crash & Safety
BETA CAE Systems
Friday, June 16, 11:00 – 11:30, Session 9A | Audimax

Automation of ANSA and META to evaluate occupant performance and seat structure for robustness
BETA CAE Systems
Wednesday, June 14, 16:00 – 16:30, Session 3A | Audimax

DEMO

ANSA & META for Occupant Safety
Thursday, June 15, 12:00 – 12:30, Demo Session 5F | Venus II

DEMO

Modular Run Management for Pedestrian / FMVSS201 analysis
Thursday, June 15, 12:30 – 13:00, Demo Session 5F | Venus II

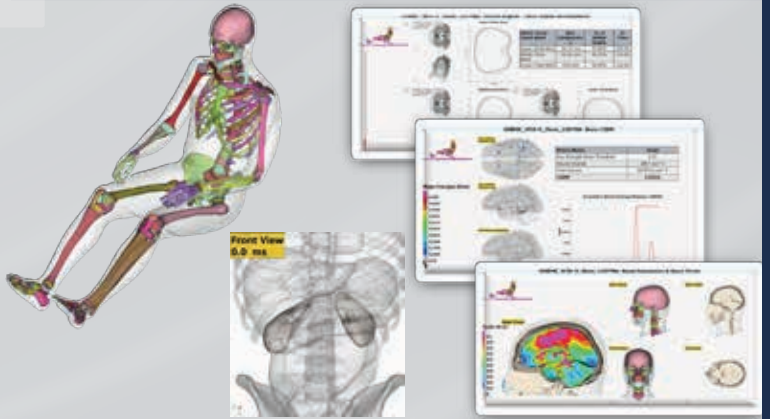
State-of-the-art Human Body modeling for CAE

Out-of-position, vulnerable road users

Model variants creation based on BMI changes

Validated kinematics

HBM advanced post-processing

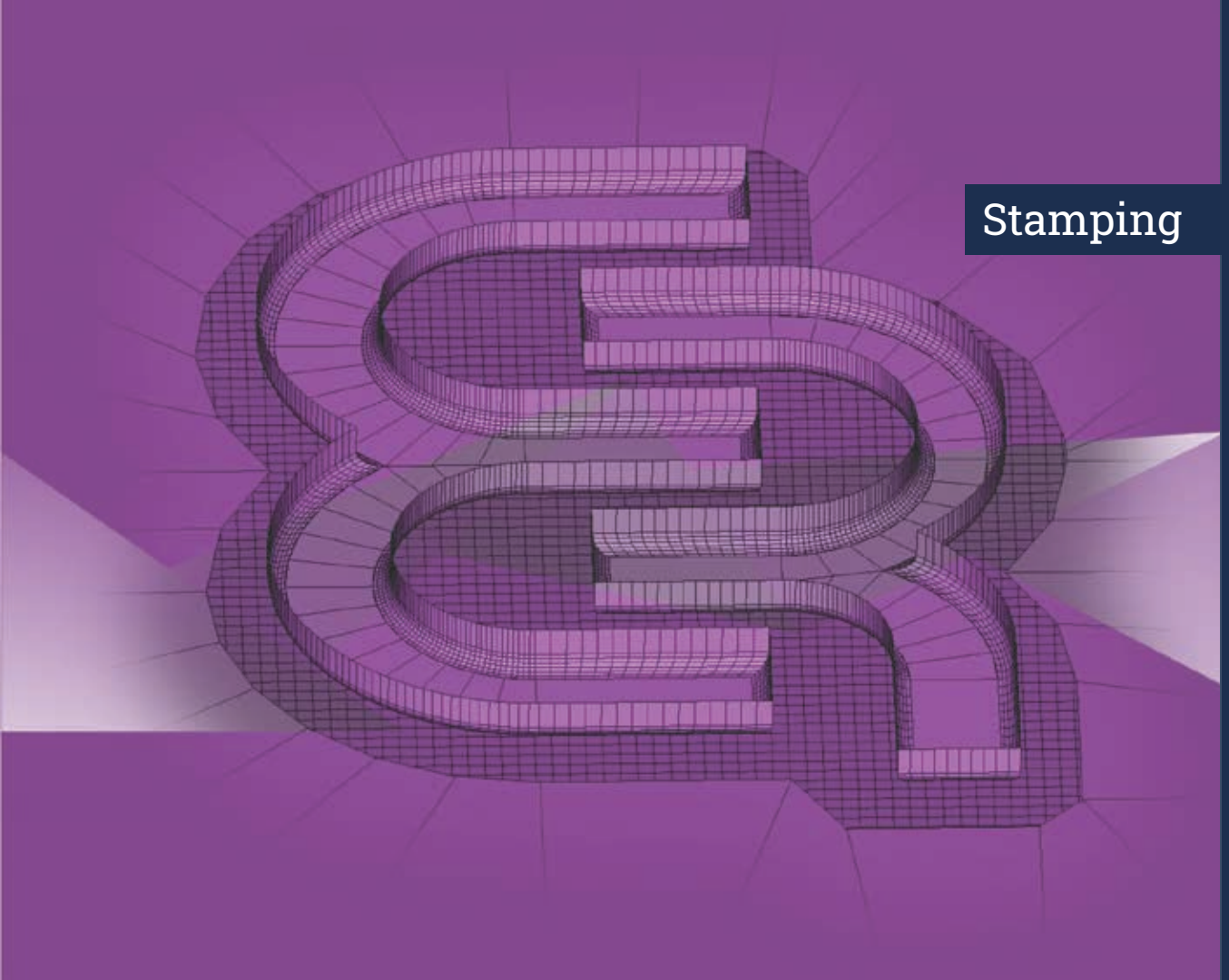


State-of-the-art Human Body modeling for CAE

Bringing Human Body Models to life. The future in Safety simulations
BETA CAE Systems
Thursday, June 15, 14:00 – 14:30, Session 6A | Audimax

Assessment of abdominal and skeletal loadings and kinematics during frontal impacts: employing a novel tool for HBM variants generation based on the occupant's BMI
BETA CAE Systems
Thursday, June 15, 14:30 – 15:00, Session 6A | Audimax

Addressing positioning challenges for ATDs and HBMs: embracing the ANSA approach in industrial safety applications
BETA CAE Systems
Thursday, June 15, 17:00 – 17:30, Session 7A | Audimax

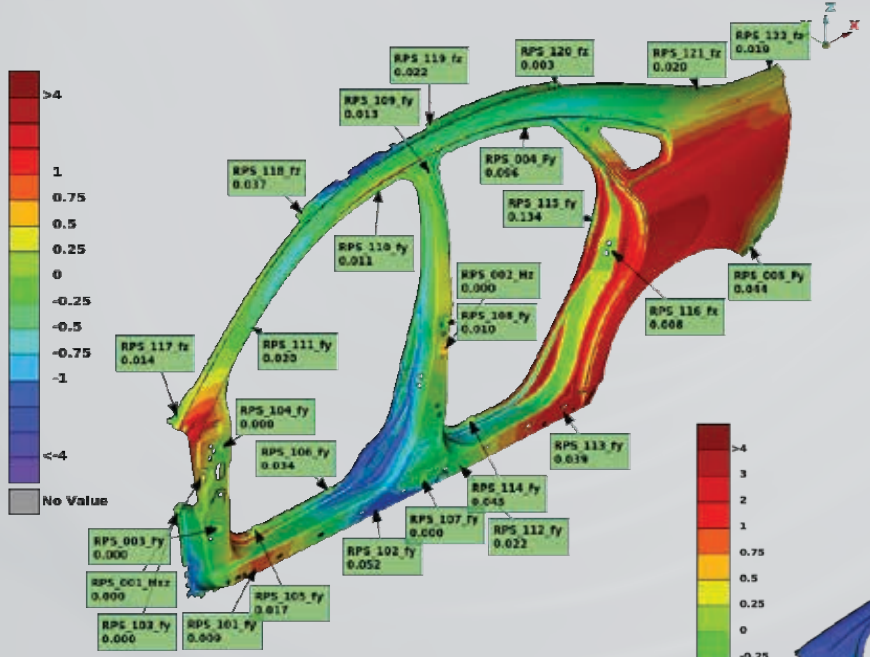


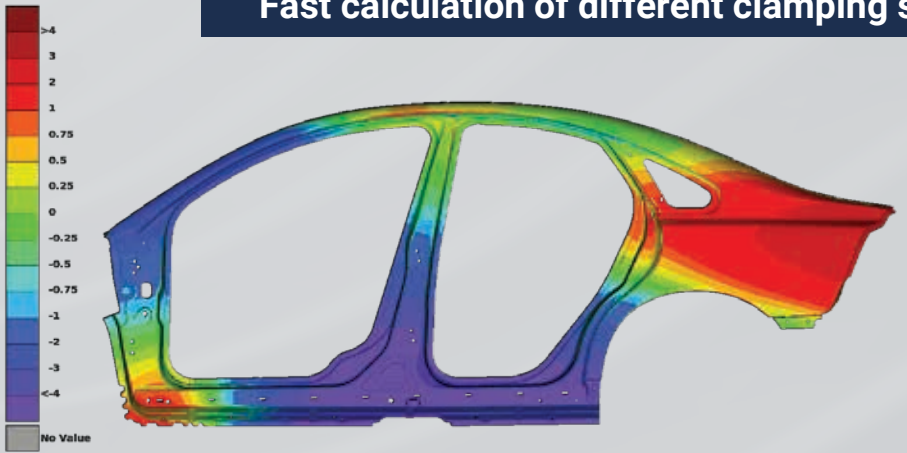
Solutions for...

Stamping

Meet the benefits of Stamping Simulation

Eliminate requirements and complexity of physical testing for Clamping processes





Free-state scans of stamping parts

Gravity effect removal of the initial scan

Different simulation methods

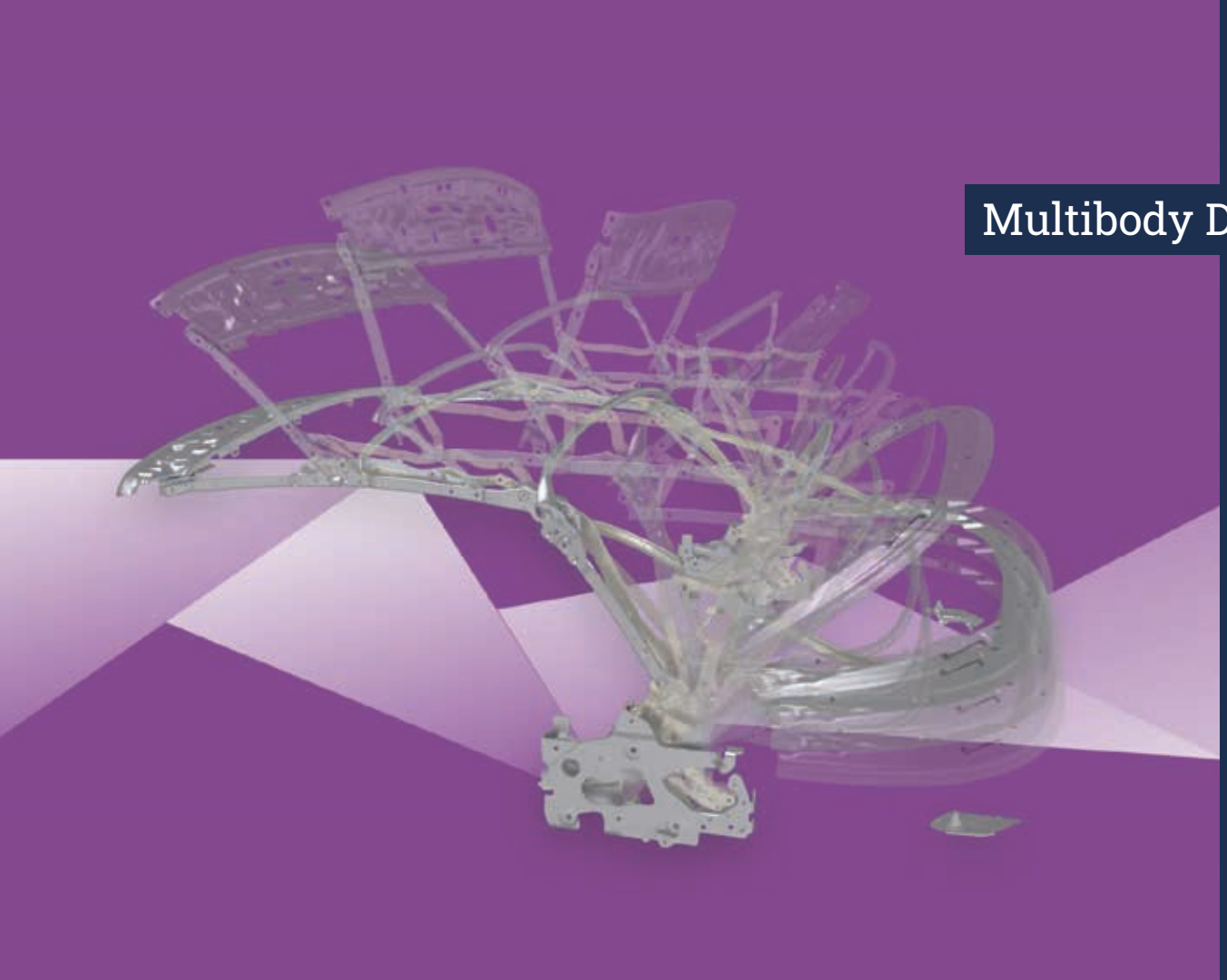
Fast calculation of different clamping scenarios

Meet the benefits of Stamping Simulation

Eliminating physical Clamping processes with the aid of Engineering Simulation
BETA CAE Systems, Thales
Friday, June 16, 11:30 – 12:00, Session 9C | Jupiter

DEMO

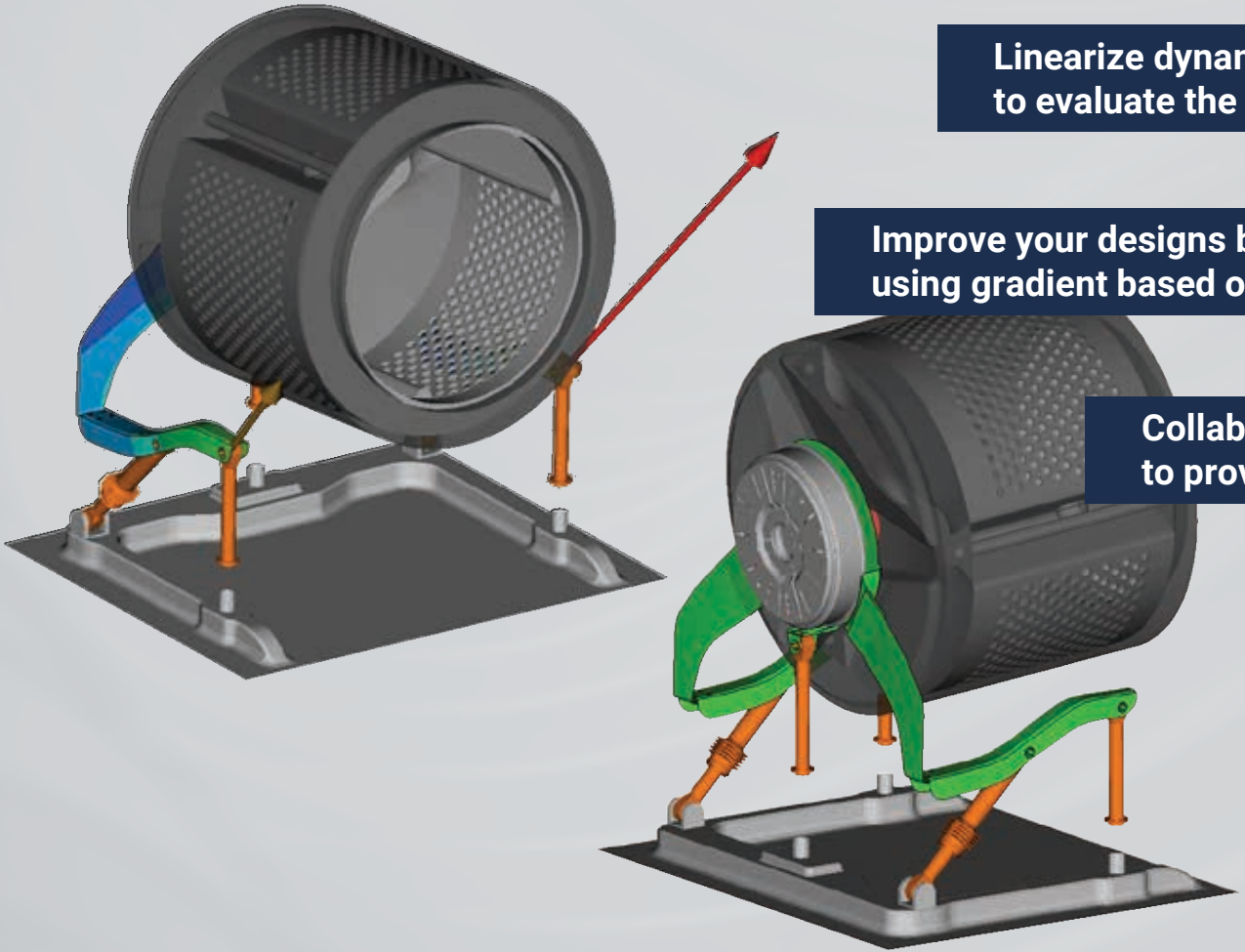
The pillar-functionality of the "stamp-crash" process
Thursday, June 15, 16:00 – 16:30, Demo Session 7G | Mars I



Solutions for...

Multibody Dynamics

Grasping the dynamic behavior of your system



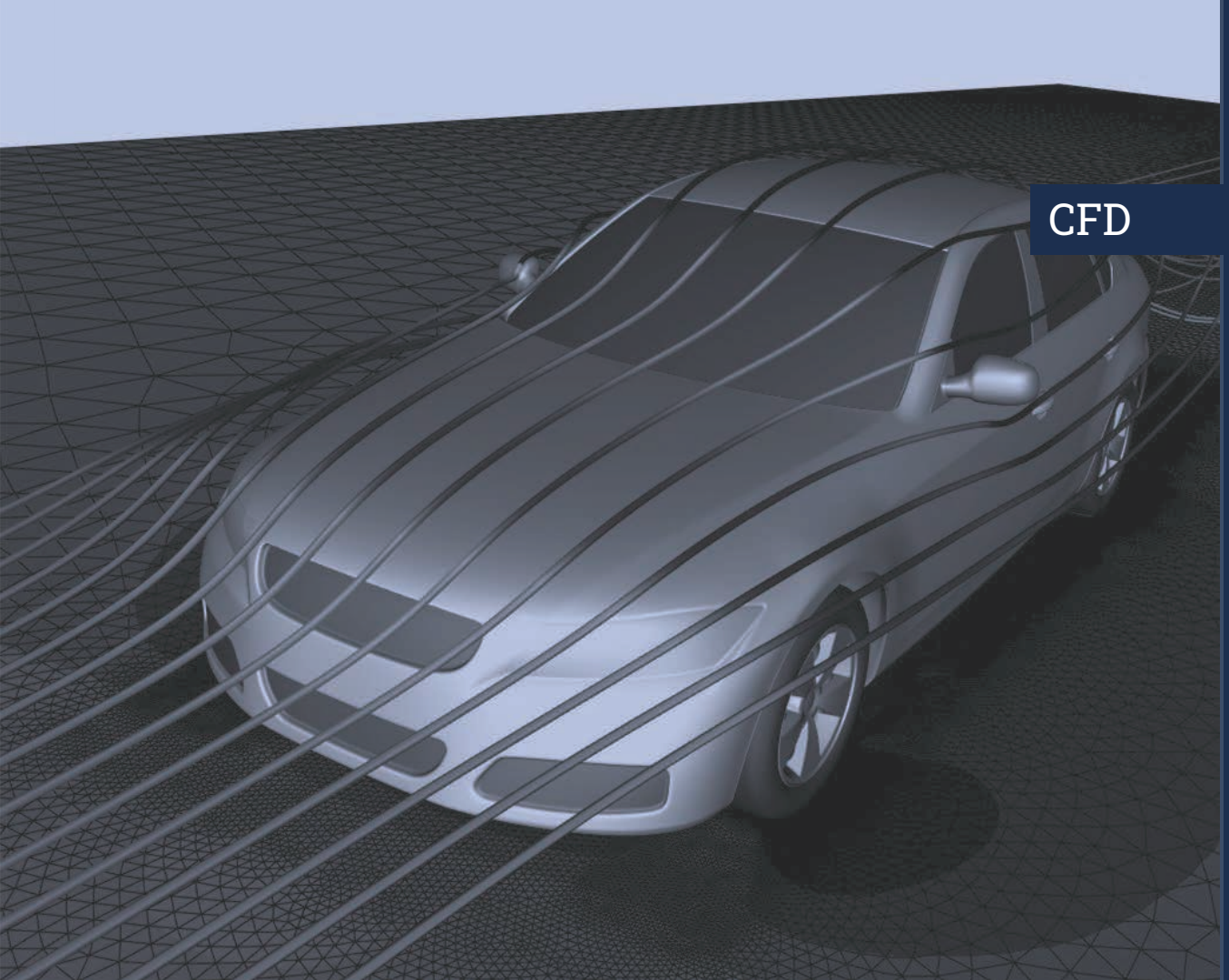
Linearize dynamic models
to evaluate the eigenmodes of a system

Improve your designs by performing optimization studies,
using gradient based or global optimizers

Collaborate with FATIQ software
to provide an integrated Durability solution

Grasping the dynamic behavior of your system

Latest Developments in Kinetics
Wednesday, June 14, 16:00 – 16:30, Demo Session 3F | Venus II

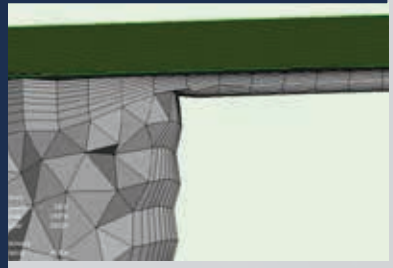


Solutions for...

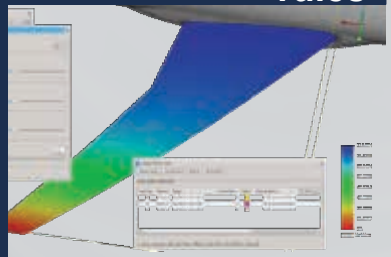
CFD

Improve your aerodynamics performance

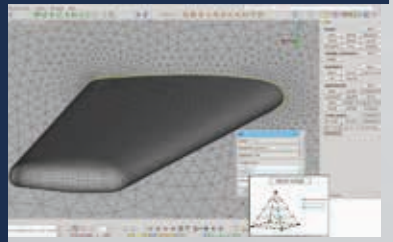
Thin wall meshing



Advanced size field rules

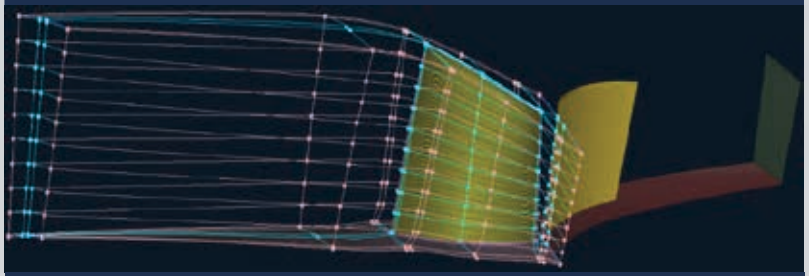


High Order meshing



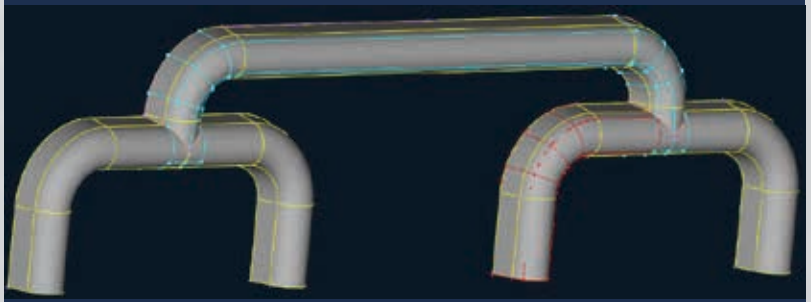
Speed up structured meshing of applications

Hexablock meshing — Turbomachinery



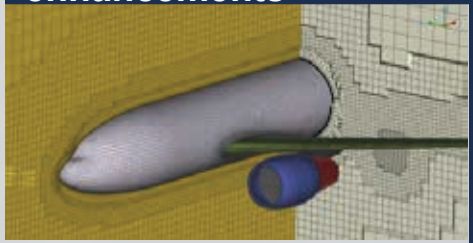
Automatic template meshing for rotating machines

Hexablock meshing — Tubular modeling



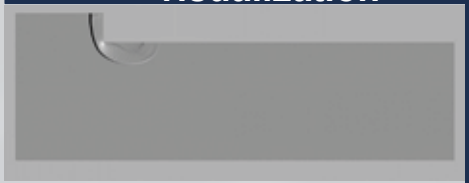
Semi-automatic tool to create boxes for tubular models

Hexa Interior enhancements



Advanced Layer generation

Schlieren Field visualization



Improve your aerodynamics performance

Latest and future developments in ANSA & META for CFD
BETA CAE Systems
Thursday, June 15, 16:00 – 16:30, Session 7B | Terra

Best-in-class CFD meshing for the aerospace sector
BETA CAE Systems
Thursday, June 15, 14:30 – 15:00, Session 6B | Terra

Suitability assessment of various meshing strategies for CFD applications
BETA CAE Systems
Thursday, June 15, 16:30 – 17:00, Session 7B | Terra

DEMO

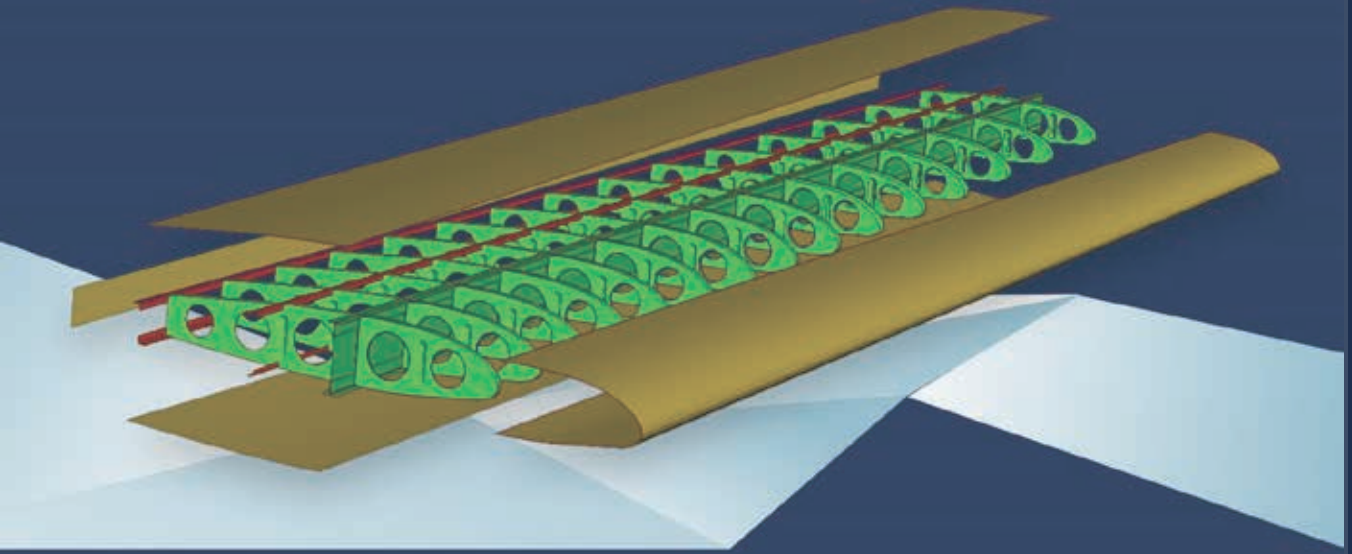
Hexablock meshing for CFD
Friday, June 16, 11:00 – 11:30, Demo Session 9E | Venus I

DEMO

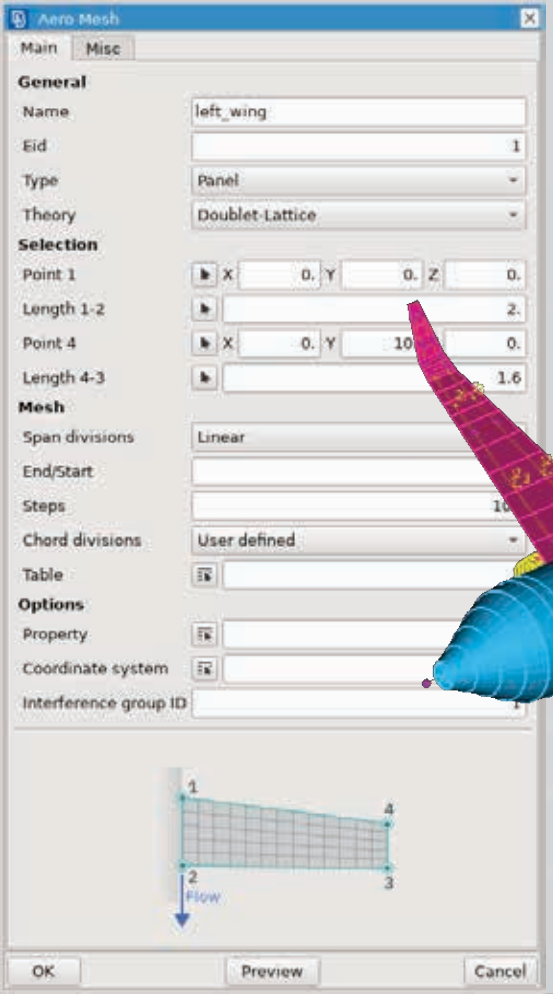
Volume modularity in CFD models: a complete workflow
Friday, June 16, 11:30 – 12:00, Demo Session 9E | Venus I

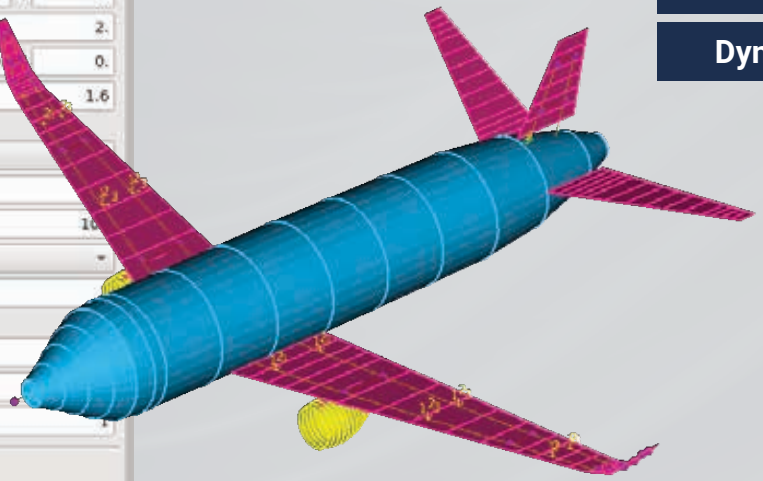
Solutions for...

Aeroelasticity



Extending our application solutions to Aerospace Industry





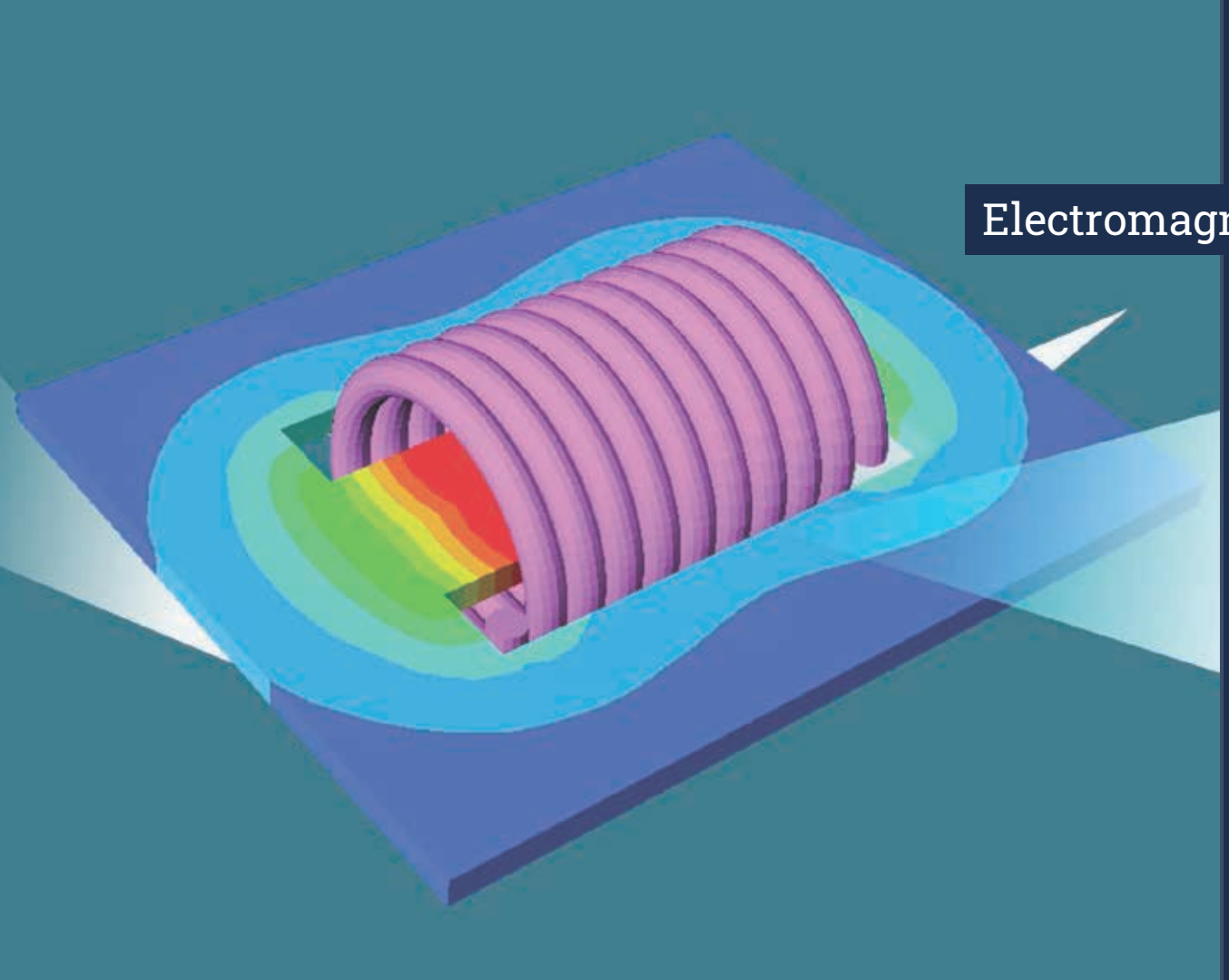
- **Loadcase Setup Assistant**
  - **Static aeroelasticity (SOL 144)**
  - **Flutter (SOL 145)**
  - **Dynamic Aeroelasticity (SOL 146)**

“Aero Mesh” tool for the creation of aerodynamic panels and bodies

Extending our application solutions to Aerospace Industry

ANSA for Nastran Aeroelasticity

Friday, June 16, 11:30 – 12:00, Demo Session 9G | Mars I



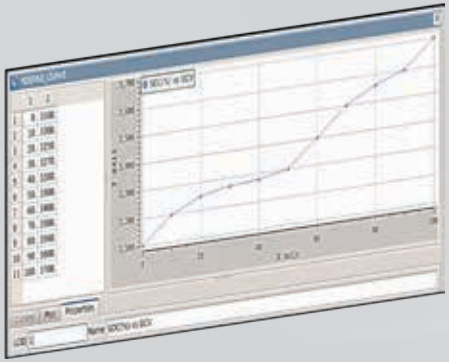
Solutions for...

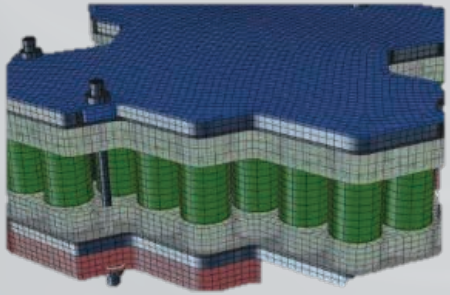
Electromagnetics

ANSA & META for battery electromagnetic simulations

Meshing and EM model setup

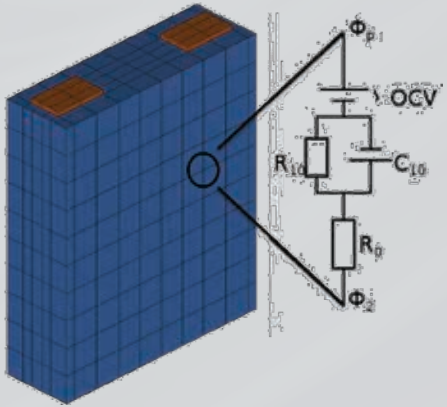
ANSA
PRE PROCESSOR





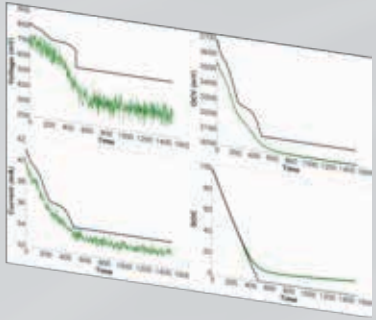
Coupled Thermal, EM & Structural analysis

Electromagnetic Solver



Electromagnetic 2D & 3D Results

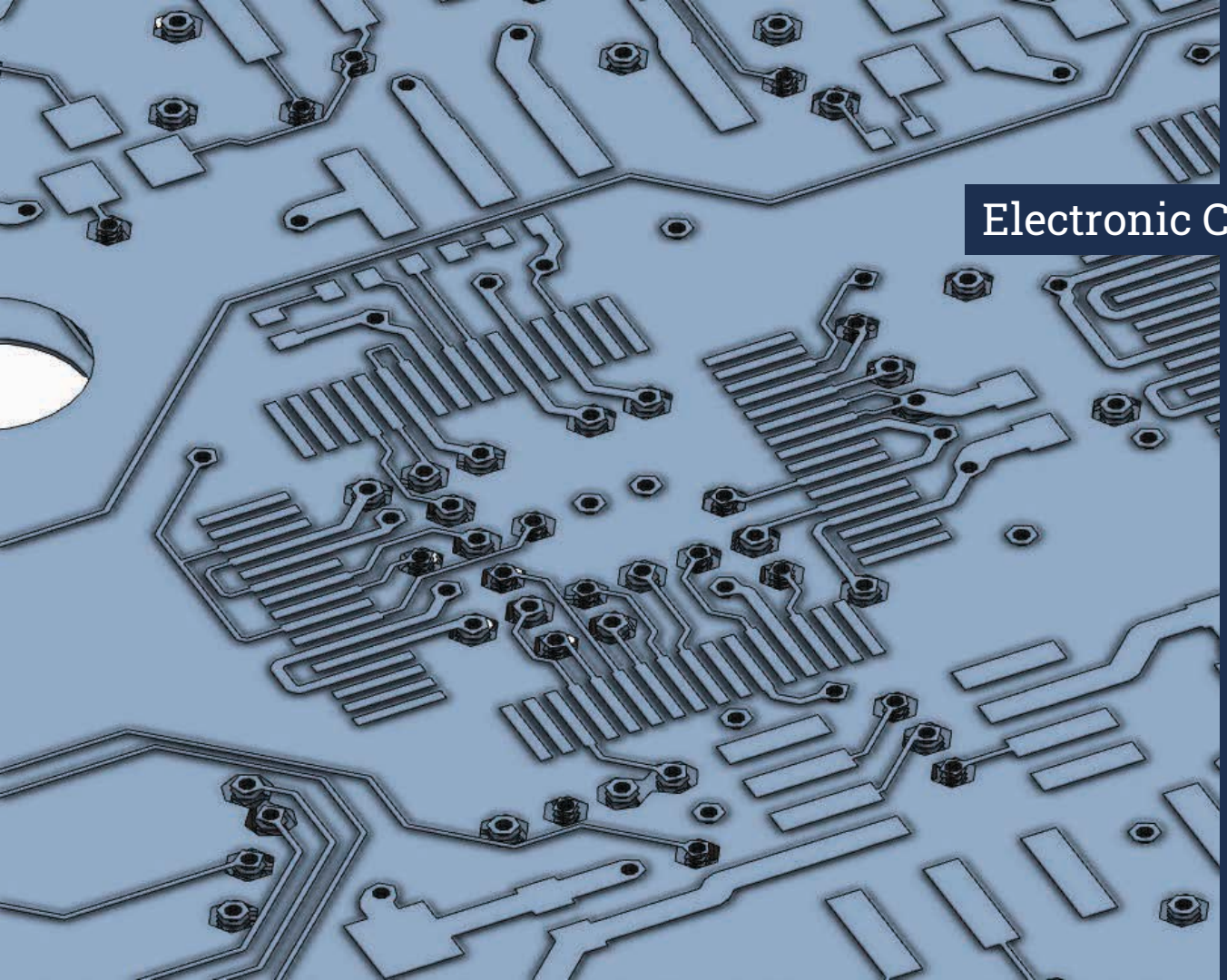
META
POST PROCESSOR



Unlock the complexities of electromagnetic analysis

ANSA and META for battery electromagnetic simulations
BETA CAE Systems
Thursday, June 15, 16:00 – 16:30, Session 7D | Saturn

Computational electromagnetics with ASERIS-BE™
IMACS, BETA CAE Systems
Thursday, June 15, 16:30 – 17:00, Session 7D | Saturn

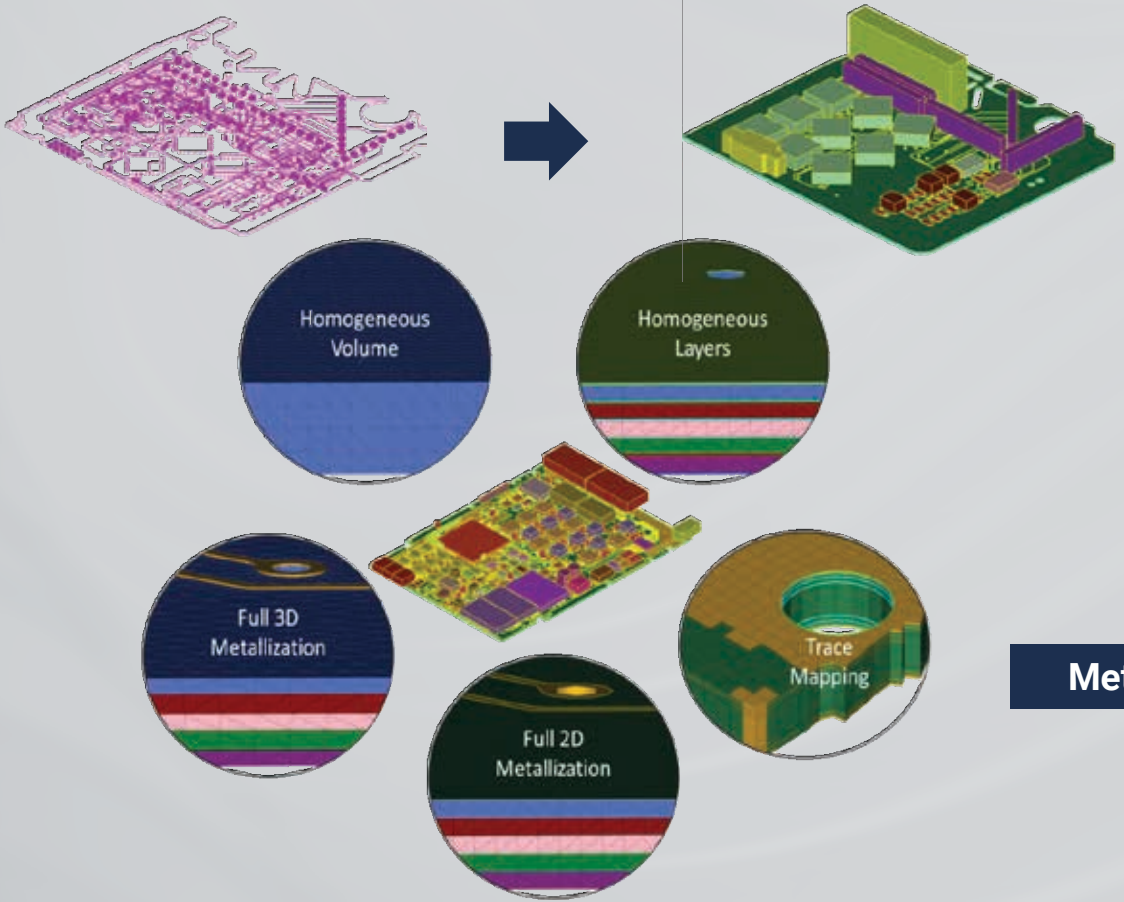


Solutions for...

Electronic CAD

Translate your ECAD designs into simulation models

Automatic generation of multiple models from ECAD files of IPC-2581 format



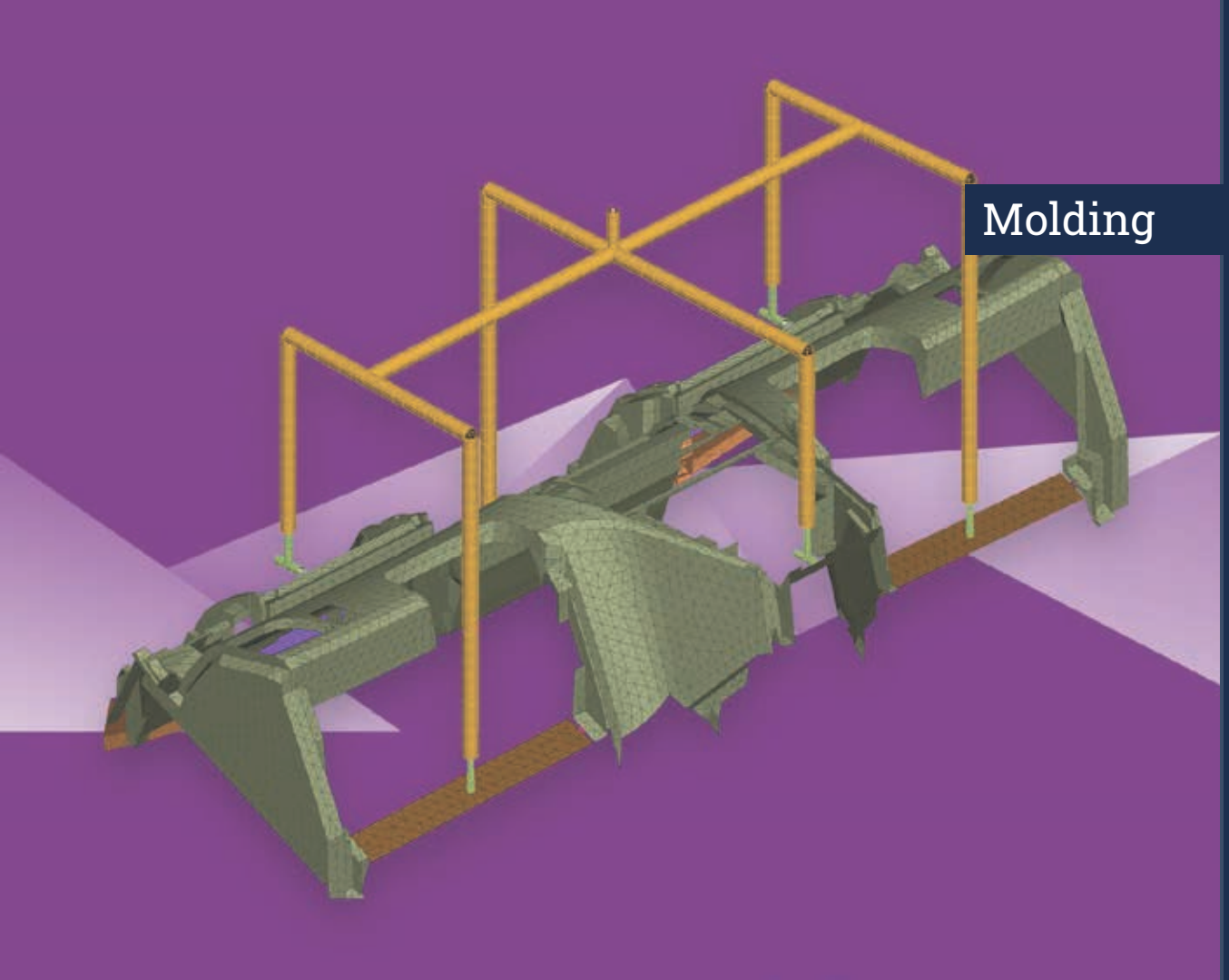
- Multiple models from the same ECAD file
- User-friendly wizard
- Board profile, either imported or custom
- Stack-up and component editing
- Metal fraction calculation of board and layers
- Ready-to-mesh result

Translate your ECAD designs into simulation models

Thermal simulation of PCBs using ANSA ECAD Importer, ANSYS Fluent and META
BETA CAE Systems, Thales
Thursday, June 15, 17:00 – 17:30, Session 7D | Saturn

DEMO

ECAD Importer: A gateway to FEA simulations for PCBs
Friday, June 16, 11:00 – 11:30, Demo Session 9F | Venus II

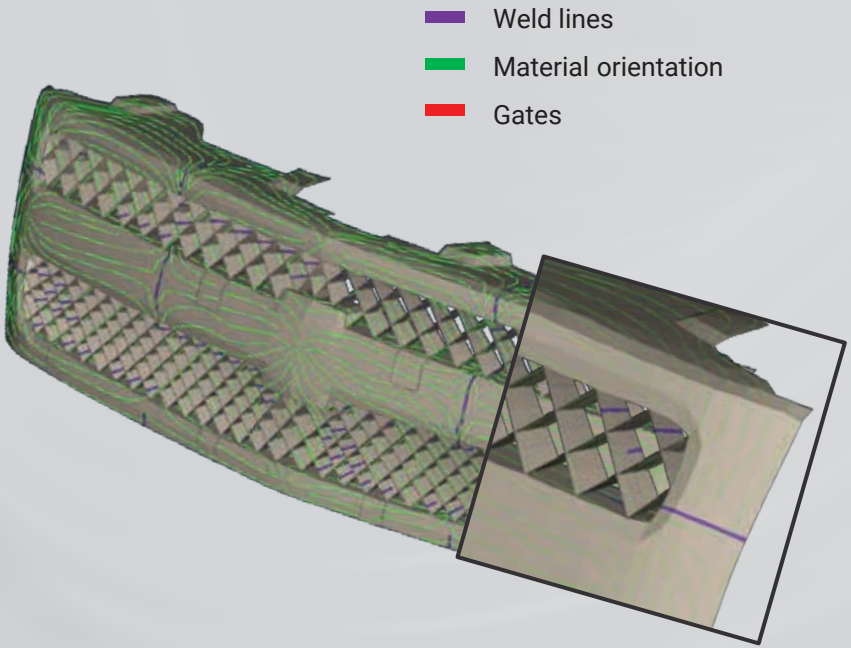


Molding

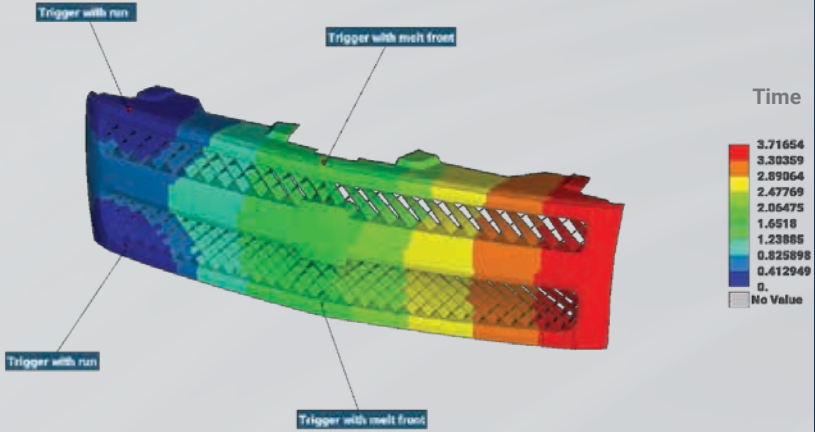
Solutions for...

Making the most of Injection Molding

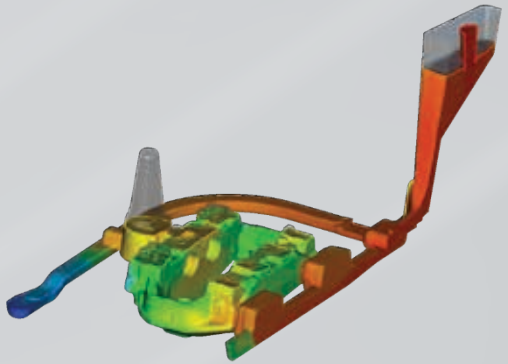
Increased accuracy in representation of Injection Molding material characteristics



Variable triggering of gates



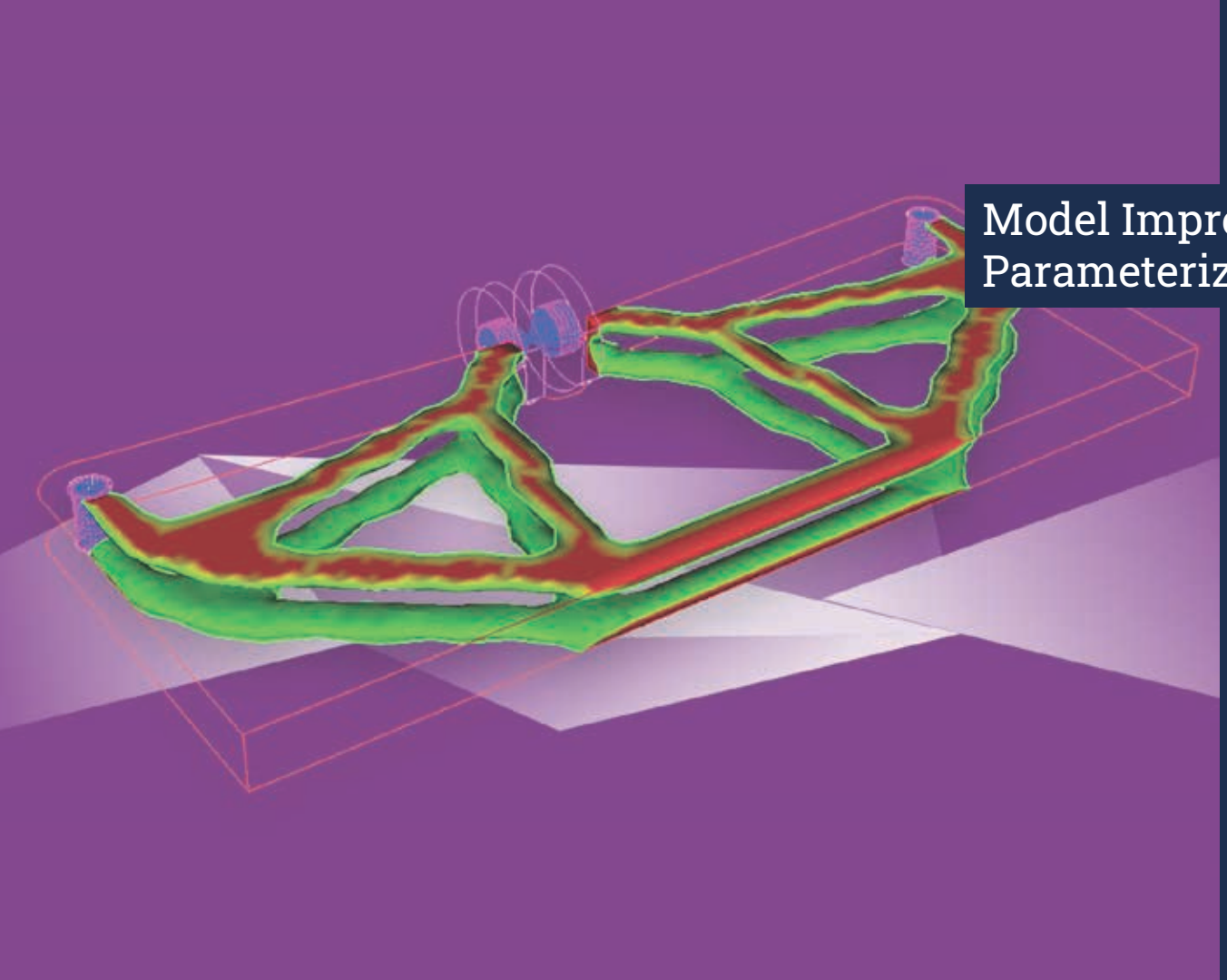
Metal Casting: Generate 3D Mesh with ANSA



Making the most of Injection Molding

Adopt injection molding manufacturing effects to improve parts' crash worthiness
BETA CAE Systems, MATFEM Ingenieurgesellshaft mbH
Wednesday, June 14, 16:30 – 17:00, Session 3D | Saturn

3D Mesh generation in ANSA for metal casting simulation with PROCAST – The Brembo automated process
BETA CAE Systems, Brembo S.p.A.
Wednesday, June 14, 17:30 – 18:00, Session 3D | Saturn



Solutions for...

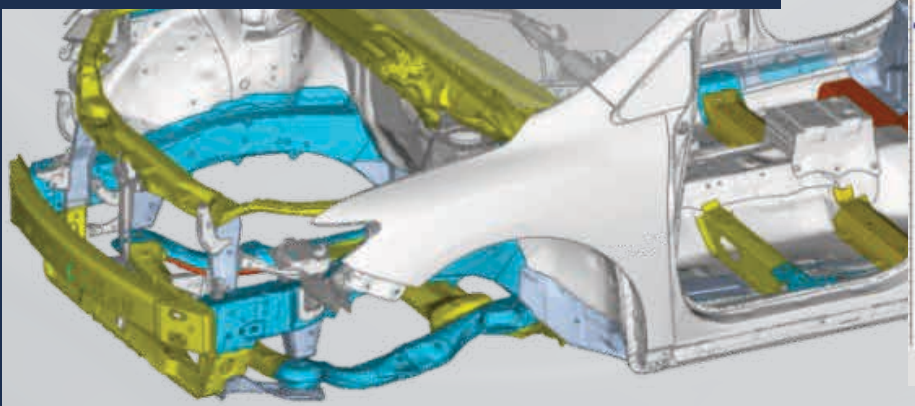
Model Improvements, Parameterization & Optimization

Discovering the Optimum Design

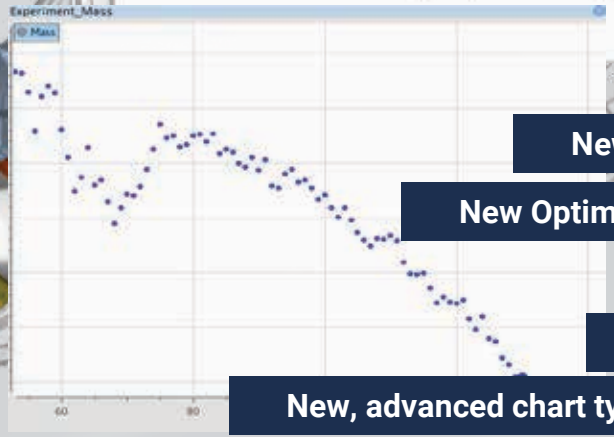
Facilitate the investigation and methods of the design and parameter efficiency

Morphing & Design Toolbar

- Parametric Modeling for numerous Member types
- Reinforcements generation
- Automatic Flanges Adaptation
- Steady Sections Morphing
- Contact Definitions in Morphing
- Handling Spotweld Density in Morphing & Optimization



Optimization Tool



- New DoE algorithms
- New Optimization algorithms
- Parallel jobs
- Optimization log
- New, advanced chart types

Discovering the Optimum Design

Latest and future Developments in Morphing and Design Toolbar
BETA CAE Systems
Wednesday, June 14, 17:30 – 18:00, Session 3B | Terra

Latest and future Developments in the Optimization Tool
BETA CAE Systems
Wednesday, June 14, 17:30 – 18:00, Session 3B | Terra

Design tools for the Analysts
Wednesday, June 14, 12:30 – 13:00, Demo Session 5G | Mars I

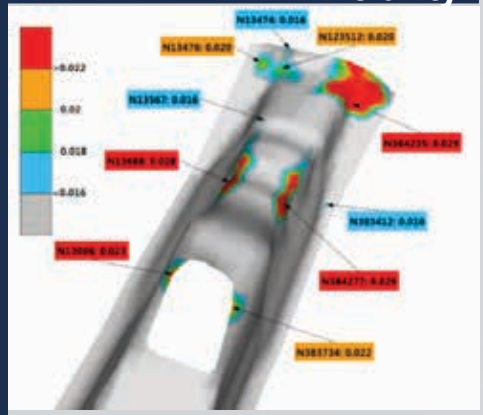
Find optimal designs of your parametric ANSA model using the embedded Optimizers in the Optimization tool
Thursday, June 15, 14:30 – 15:00, Demo Session 6G | Mars I

Solutions for...

Process Automation

Minimizing turnaround time with Process Automation

Optimized visualization & clarity

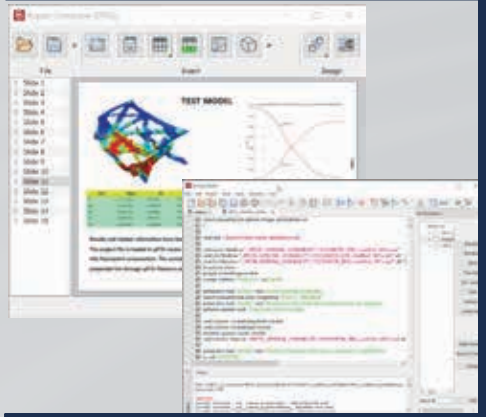


Advanced data calculations

python™

NumPy

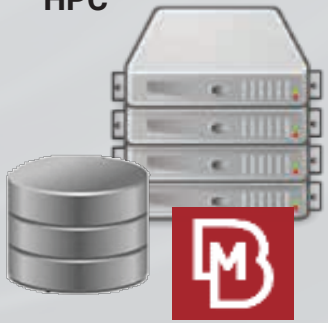
Streamlined workflows



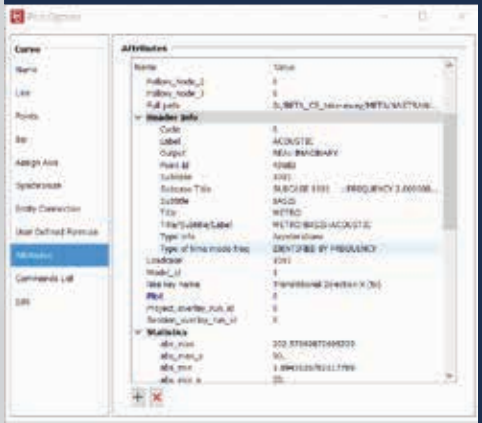
Intuitive custom interfaces

Seamless integration into high-performance environments

HPC



Efficient info storage/ retrieval



Minimizing turnaround time with Process Automation

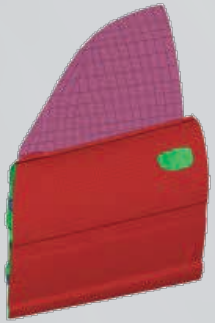
META Automation: Best practices and proven techniques
Wednesday, June 16, 16:30 – 17:00, Demo Session 3G | Mars I

Solutions for...

User Productivity

Breaking down the interoperability barrier among different FEA software

Working on multidisciplinary simulation workflows, where several solvers are involved



Stamping → Thermal → Crash

Crash

NVH

Common model definition

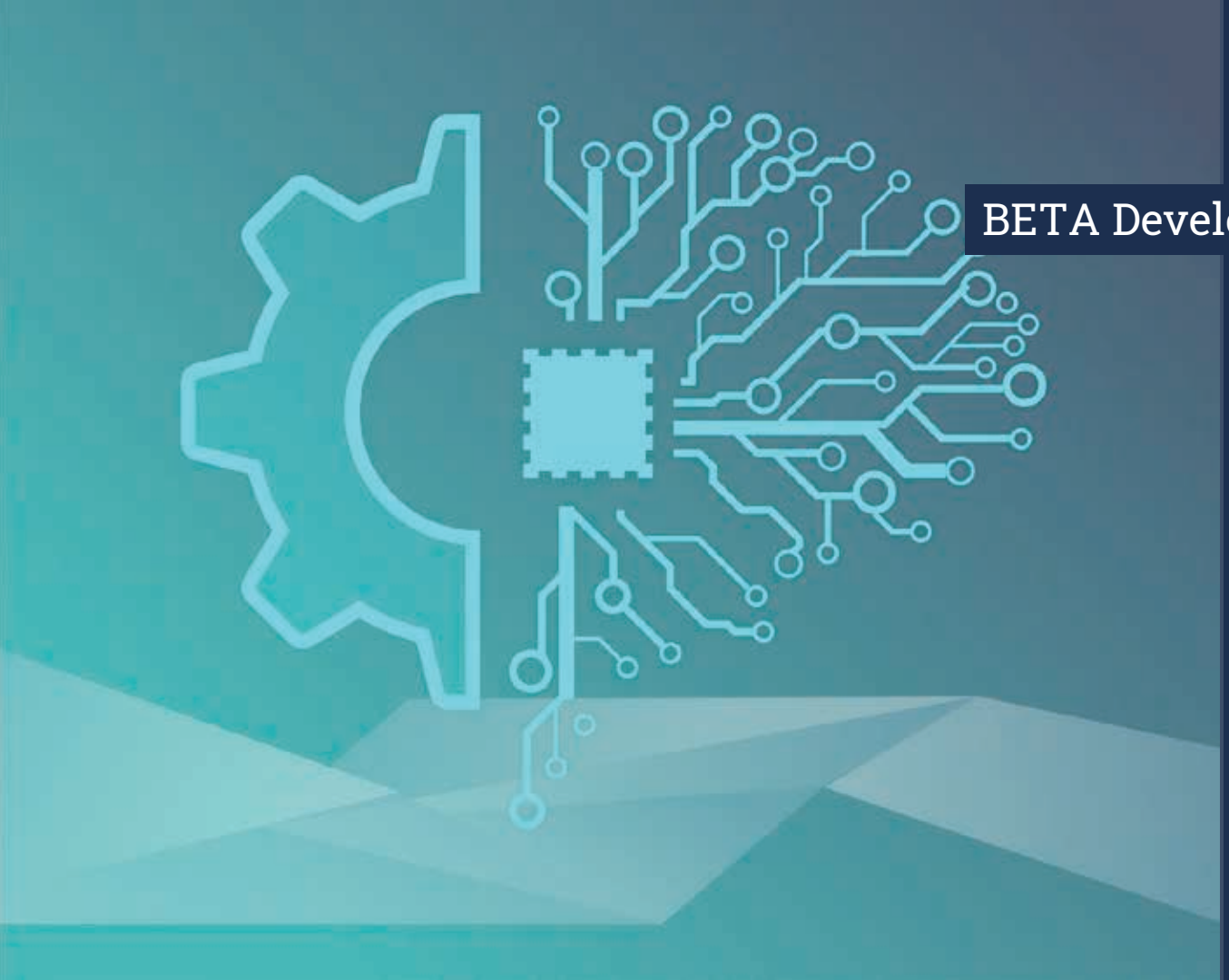
Different analysis types

Different entity definitions

Different material models

Increase the effectiveness of your modeling processes

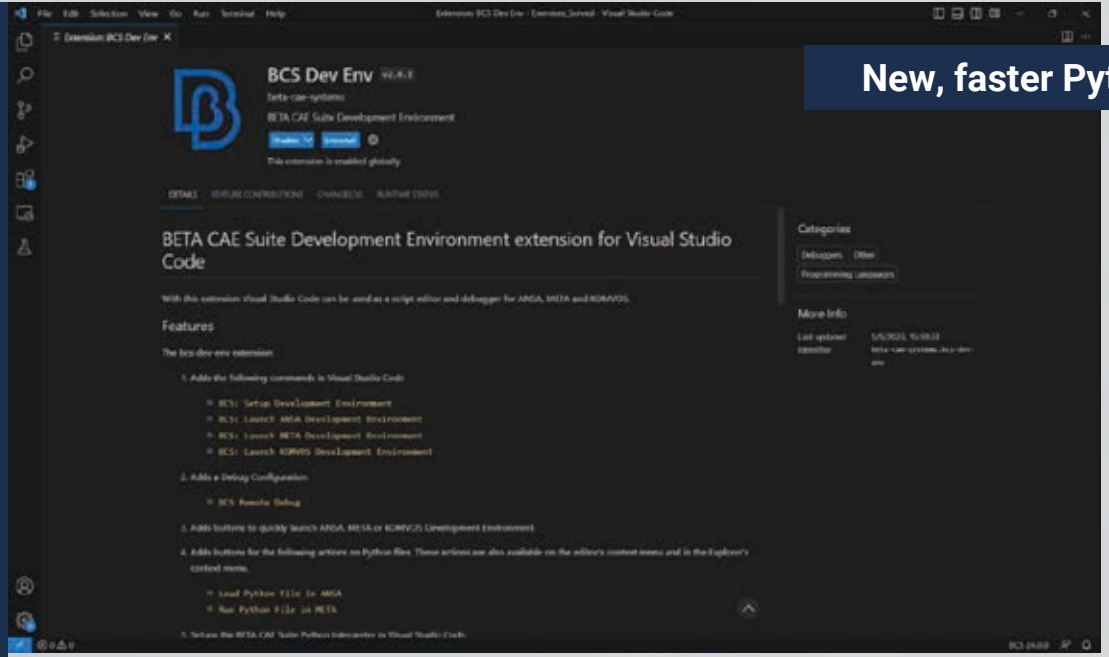
Breaking down the interoperability barrier among different FEA software
Friday, June 16, 12:00 – 12:30, Session 9C | Jupiter



BETA Development Platform

Script Development and Package Management using Virtual Environments & VSCode

Provide the developer with all the necessary tools to develop error free, high quality Python code



New, faster Python 3.11 integrated in the BETA Suite

APIs returning numpy Arrays

Support of type annotations


```
python -m venv my_virtual_environment
```

VSCode integration with BETA Suite

Working with multiple Python environments – packages

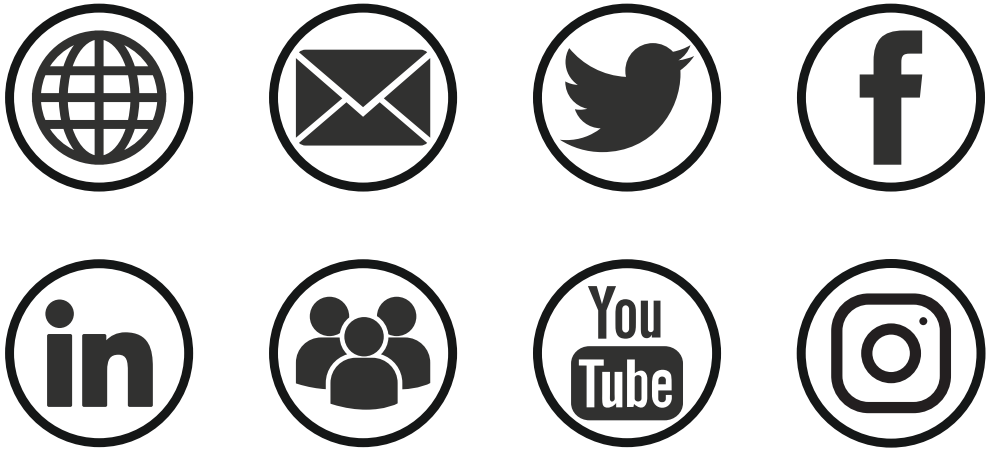
BETA Development Platform

Latest developments and future roadmap of the BETA Development Platform
BETA CAE Systems
Friday, June 16, 11:30 – 12:00, Session 9D | Saturn

Script development and package management using Virtual Environments and VSCode
Wednesday, June 14, 17:30 – 18:00, Demo Session 3G | Mars I

Let’s go!

BETA
SIMULATION SOLUTIONS



Stay connected