10th

BEFORE REALITY

CONFERENCE

June 25 - 27, 2025

Science Congress Center
Munich, Germany

event guide

BETA
SIMULATION SOLUTIONS

cadence®

Welcome

Welcome to the 10th BEFORE REALITY CONFERENCE

We would like to extend our heartfelt appreciation for your presence and for playing an integral role in confirming the BEFORE REALITY conference as a significant milestone for the global engineering simulation community.

At BETA, our commitment to empowering engineers to achieve highly valuable outcomes remains steadfast. Our continuous efforts to provide cutting-edge, high-performance software, and unparalleled services are fueled by our passion for engineering, pursuit of excellence, and loyalty to our customers and partners. These elements have been the cornerstones of our success throughout the years and still remain intact.

Our dedication to our mission and values is exemplified through our flagship products and the introduction of innovative software, where we strive to make groundbreaking advancements. This year's conference will showcase the outcomes of our ongoing endeavors to tackle the complexities associated with simulation processes.

Over the course of the three-day conference, you will have the opportunity to witness over 100 presentations highlighting the achievements and latest advancements of our esteemed customers. These presentations will delve into simulation strategies, methodologies, techniques, and applications related to our products.

Similar to our previous events, the demo sessions will be centered around carefully selected application domains, showcasing the cutting-edge functionalities and implementations of our software.

Furthermore, the technology gallery will provide a platform for engaging in private or open technical discussions and demonstrations with our executive, development, and service engineers. It is an ideal opportunity to promote your interests and share your requests for future developments.

We would like to express our gratitude to all those who contributed to the conference through their technical presentations, as their contributions have been invaluable.

Lastly, we eagerly await your presence at the Dinner on Thursday evening, where we can celebrate our reunion.

Wishing you a delightful and rewarding stay throughout the event.

Programme

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The Agenda at a Glance

DAY 1 - WEDNESDAY JUNE 25, 2025		
8:30 - 10:15	Welcome Coffee - Registration	Foyers – Ground Floor
10:15 - 12:30	Conference Kick-off and Plenary Session	Audimax
12:30 - 13:30	Lunch	Foyers
13:30 - 15:00	Plenary Session	Audimax
15:00 - 15:30	Coffee Break & Technical discussions	Foyers
15:30 - 17:30	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn, Venus, Mars
17:30 - 20:00	Drinks	Foyers

DAY 2 - THURSDAY JUNE 26, 2025		
08:00 - 09:00	Welcome Coffee - Registration	Foyers – Ground Floor
09:00 - 10:00	Plenary Session	Audimax
10:00 - 10:30	Coffee Break & Technical discussions	Foyers
10:30 - 12:30	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn, Venus, Mars
12:30 - 12:40	Group-photo Shooting	*(TBA)*
12:50 - 13:30	Lunch	Foyers
13:30 - 15:00	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn, Venus, Mars
15:00 - 15:30	Coffee Break & Technical discussions	Foyers
15:30 - 17:30	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn, Venus, Mars

18:15	Buses to dinner depart from Science Congress Center
19:00 - 23:00	Reception - Dinner & Entertainment | Augustiner-Keller Munich (Amulfstrasse 52)
23:00	Buses to Courtyard Munich Garching hotel depart

DAY 3 - FRIDAY JUNE 27, 2025		
09:00 - 09:30	Welcome Coffee - Registration	Foyers – Ground Floor
09:30 - 11:30	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn, Venus, Mars
11:30 - 12:00	Coffee Break & Technical discussions	Foyers – Ground Floor
12:00 - 13:10	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn, Venus, Mars
13:10 - 14:30	Farewell Lunch	Foyers

Agenda

10th BEFORE REALITY CONFERENCE - Agenda

DAY 1	WEDNESDAY JUNE 25, 2025
8:30 - 10:15	**Registration** | Ground Floor Foyer & **Welcome Coffee** | Foyers
	Session 1 | Audimax Moderator: C. Sferidou
10:15 - 10:20	**Conference Kickoff - Welcome** Chryssa Sferidou, BETA / Cadence
10:20 – 10:30	**Opening Speech** Dimitris Angelis VP Research & Development, BETA / Cadence
10:30 - 11:00	**A New Millennium in Multiphysics System Analysis** Vivek Mishra Corporate Vice President, Cadence
11:00 - 11:30	KEYNOTE SPEECH**: Human Body Modelling – On the Road to Virtual Testing** Bengt Pipkorn Technical Leader, Injury Prevention Methods, Volvo Cars Safety Centre
11:30 - 12:00	**ANSA - Enabling Agile and Manufacturing Driven Lightweight Design** Andreas Pau Mercedes-Benz AG
12:00 - 12:30	**The Evolution of BETA / Cadence Portfolio in a Nutshell** Chryssa Sferidou, BETA / Cadence
12:30 - 13:30	**Lunch** | Foyers
	Session 2 | Audimax Moderator: M. Tryfonidis
13:30 - 14:00	**From Data to Decisions: Enhancing BiW Development Through Advanced Data Analytics** [1]Dr.-Ing. Vitor Cores Finotto*, [1]Dr.-Ing. Caglar Guerbuez*, [1]Dr.-Ing. Babak Gholami, [2]Dimoliani Marianthi, [2]Kalogeraki Chrysoula, [2]Kanellia Zafeiria, [2]Roumpies Athanasios, [2]Tryfonidis Michail [1]BMW AG, [2]BETA / Cadence
14:00 - 14:30	**Integrated Solution for PCBs and Electronic Device Drop testing** Lambros Rorris, BETA / Cadence
14:30 - 15:00	**Accelerating Aerodynamics: GPU-Powered CFD Simulation Workflow** [1]Vangelis Skaperdas*, [2]Lohitasyudu Gorli, [2]Olivier Thiry, [1]Grigoris Fotiadis [1]BETA / Cadence, [2]Cadence
15:00 - 15:30	**Coffee Break & Technical Discussions** | Foyers

DAY 1	WEDNESDAY JUNE 25, 2025					
	Session 3A | Audimax Moderator: T. Fokylidis	**Session 3B** | Terra Moderator: K. Haliskos	**Session 3C** | Jupiter Moderator: M. Pappas	**Session 3D** | Saturn Moderator: V. Karatsis	**Session 3E** | Venus Moderator: N. Drivakos	**Session 3F** | Mars Moderator: N. Tsartsarakis
15:30 - 16:00	**Adaptive Restraint Insights: Influence of Seat Belt Positioning on Upper Body Kinematics Using HYBRID iii and GHBMC Models** Lennard Reimers*, Ananthu Nath Suresh Kumar, Lennart Massarczyk, Gerald Joy Alphonso Sequeira, Robert Lugner, Thomas Brandmeier CARISSMA-ISAFE, Technische Hochschule Ingolstadt	**Unlocking Multiphysics Simulations with SPH Solver** Dionysios Pettas BETA / Cadence	**CAE Data Management: Status of Usage of SPDRM at Model Factory. Coverage, Expansion, Perspective for Iteration** Jérémie Gomez RENAULT Group	**Multimodal Characterization of Polymeric Foam Based on X-Ray Computed Tomography and Digital Volume Correlation** [1,2]Louisa Winkler*, [2]Oliver Zhang, [2]Robert Auenhammer [1]TUM School of Engineering and Design, Technical University of Munich, [2]Passive Safety, BMW Group	[DEMO] **PCB Drop Test Simulation: Modeling and Setup in ANSA** Thanos Papadopoulos*, Vasilis Migkos BETA / Cadence	[DEMO] **Reduced models in Modular Run Management for NVH** Christos Moulkiotis BETA / Cadence
16:00 - 16:30	**Toward Safer Motorcyclists: Enhancing Human Body Models by Integrating Rider Posture Variability** [1]Linus Lundin *, [2]Maria Oikonomou [1]Chalmers University of Technology, [2]Aristotle University of Thessaloniki	**3D Numerical Simulation of Vehicle Water Wading: Investigation Based on SPH Method** [1]Alessandro Capalbo*, [2]Gabriele Velenich [1]Polytechnic of Turin, [2]AMET S.r.l	**Latest Developments in SPDRM** Irene Makropoulou*, Menelaos Pappas, BETA / Cadence	**Micromechanical Modeling of Closed-Cell Foams Based on Computed Tomography Data** [1]Lei Liu*, [1]Fang Liu, [2]Dan Zenkert, [2]Malin Åkermo, [3]Marc P.F.H.L. van Maris, [3]Johan P.M. Hoefnagels, [1]Martin Fagerström [1]Chalmers University of Technology, [2]KTH Royal Institute of Technology, [3]Eindhoven University of Technology	[DEMO] **Challenges and Solutions in Modeling of Electronic Consumer Devices** Haris Bezdemiotis BETA / Cadence	[DEMO] **Achieve Improved NVH Performance Faster Through the Unique Diagnostic Capabilities of META 2025.1** Grigoris Kalampoukas BETA / Cadence
16:30 - 17:00	**HBM Connect® Family of Human Body Models Integrate to BETA CAE Technologies** [1]Anurag Soni, [1]Renuka Jagadish, [1]Pradeep Kulavi, [1]Chirag Shah*, [2]Thanassis Lioras, [2]Nikos Tzolas, [2]Thanassis Fokylidis [1]Humanetics Group, [2]BETA / Cadence	[ONLINE] **Curved Mesh Generation for High-Order Spectral Element Solvers** [1]Cristiano Pimenta*, [2]Antonis Karasavvidis [1]Volvo Car Corporation, [2]BETA / Cadence	**Redefining Simulation Teams: Empowering Engineers with Dedicated Process Automation Experts** Wojciech Rzadkosz EVCON	**Integrative Simulation of AL-LPDC and AL-HPDC – From Experiment to Mapping of Process Parameters** [1]Michael Richter*, [1]Martin Oehm, [1]Helmut Gese, [2]Jörg Zimmermann, [2]Michael Heitzer, [3]George Mokios, [3]Panagiotis Fotopoulos [1]MATFEM Ingenieurgesellschaft mbH, [2]MAGMA Gießereitechnologie GmbH, [3]BETA / Cadence	[DEMO] **Streamlining Lightweight Design: CAD-CAE Synergy** Serafeim Chatzimoysiadis BETA / Cadence	[DEMO] **Frequency Response Analysis in MBD Simulations** Evripidis Ntinas BETA / Cadence
17:00 - 17:30	**A Priori Quantification of Cross-Talk in Trimmed Isogeometric Shells via Adaptive Sampling** [1,3]Zeyu Lian, [4]Chantat Krisadawat, [2]Lukas F. Leidinger*, [2]Stefan Hartmann, [3]Frank Bauer, [1]Roland Wüchner [1]Technical University of Munich, [2]DYNAmore, an ANSYS Company, [3]BMW Group Research and Innovation Center, [4]TUM School of Engineering and Design, Technical University of Munich	**Supercharge Your Design: Leveraging Optimality and AI for Enhanced Aerodynamics Optimization** [1]Olivier Thiry*, [2]Grigoris Fotiadis, [1]Vincent Doutrelant, [2]Nicholas Mitroglou [1]Cadence, [2]BETA / Cadence	**Towards Zero-Meshing Effort at BMW: Innovations in DCM & ANSA** [1]Michael Tryfonidis*, [2]Bastian Naeser [1]BETA / Cadence, [2]BMW AG	[ONLINE] **Modeling of Biocomposites in Crash Applications** [1]Johann Körbelin*, [1]Renaud Gutkin, [2]Leif Asp, [3]Konstantinos Rachoutis, [3]Dimitrios Drougkas [1]Volvo Car Corporation, Safety Centre, [2]Chalmers University of Technology, [3]BETA / Cadence	[DEMO] **AI for Clips: Redefining Performance in CAE Pre-Processing** Pavlos Floratos BETA / Cadence	
17:30 - 19:30	**Drinks** | Foyers					

10th BEFORE REALITY CONFERENCE - Agenda

DAY 2	THURSDAY JUNE 26, 2025 - Morning Sessions					
08:00 - 09:00	**Registration** | Ground Floor Foyer & **Welcome Coffee** | Foyers					
	Session 4 | Audimax Moderator: S. Seitanis					
09:00 - 09:30	**Standardizing Simulation at Daimler Truck: A Cross-Disciplinary Shift from Legacy Tools to a Future-Proof Platform** [1]Irene Makropoulou*, [1]Antonis Perifanis, [2]Basaran Oezmen, [2]Frank Issler [1]BETA / Cadence, [2]Daimler Truck AG					
09:30 - 10:00	**Next-Gen User Experience: A Paradigm Shift** Dimitrios Zafeiropoulos, BETA / Cadence					
10:00 - 10:30	**Coffee Break & Technical Discussions** | Foyers					
	Session 5A | Audimax Moderator: E. Giordano	**Session 5B** | Terra Moderator: Y. Kolokythas	**Session 5C** | Jupiter Moderator: I. Nerantzis	**Session 5D** | Saturn Moderator: S. Chatzimoysiadis	**Session 5E** | Venus Moderator: P. Pantazidis	**Session 5F** | Mars Moderator: P. Fotopoulos
10:30 - 11:00	**Development of Automatic Procedure for Import, Meshing, and CFD Simulation for Production of Extensive Training Dataset for Machine Learning Model** Alessandro Dell'Uomo*, Matteo Gregori, Marco De Tommasi, Francesco Linardi RINA - CSM	**Latest and Future Developments in ANSA/ASERIS-BE™ for Electromagnetic Simulations** [1]Benoît Chaigne*, [2]Nikolas Drivakos*, [2]Anastasios Panagiotopoulos [1]IMACS, [2]BETA / Cadence	**ODF and ODS – A Comprehensive Approach to Evaluate Vehicle Stiffness Using MBD** [1]Jens Weber*, [1]Pravin Ugale*, [2]Ioannis Karypidis, [2]Milton Pena, [2]Jesper Bäcklund, [2]Peter Appelgren, [3]Mats Berggren, [4]Henrik Marberg [1]Zeekr Tech AB / CAE Solidity & RLD, [2]BETA / Cadence, [3]AFRY, [4]Marberg Engineering AB	**Body In White Shape Optimization for Torsional Stiffness** Dimitris Drougkas BETA / Cadence	[DEMO] **NVH Console: Component Panel Thickness and Shape Optimization** Grigorios Kalampoukas BETA / Cadence	[DEMO] **Uniformity & Intuitiveness: the new ANSA UI** Dora Zacharopoulou BETA / Cadence
11:00 - 11:30	**Multi-Objective Aerodynamic Optimization of Aircraft – a Comparison Between Geometry Parameterization and Mesh Morphing Approaches** Giuseppe Porpiglia, Leonardo Spa	**Fidelity 3D-IC Thermal and Mechanical Analysis Using ANSA Hex-Dominated Mesh in Celsius Studio** [1]Wurong Yu, [1]Nathan Ai, [1]Jun Lu, [2]Pavlos Floratos*, [2]Theocharis Kartalis Kaounis [1]Cadence, [2]BETA / Cadence	**Fatigue Life Analysis as Part of the Design Optimization Process for Welded Structures** George Korbetis BETA / Cadence	**Multi-Objective Optimization of Buckling and Burst Pressure in Composite Hydrogen Storage Tanks for Deep Sea Applications** Dr. Mariam Jaber King Fahd University of Petroleum and Minerals	[DEMO] **Post-processing of MBS Results in META** Markus Herbst BETA / Cadence	[DEMO] **Elevated User Experience and Increased Productivity with the New META GUI - Tips and Tricks for a Smooth Migration** Antonios Perifanis BETA / Cadence
11:30 - 12:00	**BE(Y)OND Simulation: A CFD Workflow Validation for a Kart Aerokit with ANSA, Fidelity CFD, and META** [1]Simone Reitano*, [1]Davide Berti Polato, [1]Andrea Terranova, [2]Marco Di Nonno, [2]Miguel Torrente Pardo [1]BEOND, [2]BETA / Cadence	**Electronics & Power Electronics Pre/Post-Processing with BETA CAE tools** Thanos Tzanakis BETA / Cadence	**Introducing Superelement Technique for Weld Fatigue Analysis** Christos Tegos BETA / Cadence	[DEMO] **ANSA for DOE and Optimization** Kostantinos Rachoutis BETA / Cadence	[DEMO] **Squeak and Rattle Analysis in ANSA and META** Stavros Porikis BETA / Cadence	[DEMO] **Streamlining Simulation Processes: From Mesh to Results In No Time** Georgia Dimopoulou BETA / Cadence
12:00 - 12:30	**Comparative Analysis of Oil Distribution on Electric Motor Shaft Bearings Using SPH and CFD Methodologies** Sergio Tosi*, Antonella Calamiello Dumarey Automotive Italia S.p.A.	**Full Vehicle Electromagnetic Simulation with ANSA and Clarity 3D Solver** Nikolaos Drivakos BETA / Cadence	**Latest Developments in ANSA/META for Durability Simulations and Structures Made of Composite Materials** Yiannis Asaniotis BETA / Cadence		[DEMO] **Minimise Turnaround Calculation Time for Interior and Exterior Acoustic Responses Through Elevated Reduced Modeling Capabilities of META 2025.1** Christos Moulkiotis BETA / Cadence	[DEMO] **Model Debugging and Integration Using the Run Solver Tool** Spyros Tsekouras BETA / Cadence
12:30 - 12:40	**Group Photo Shoot**					
12:40 - 13:30	**Lunch** | Foyers					

DAY 2	THURSDAY JUNE 26, 2025 - Afternoon Sessions					
	Session 6A | Audimax Moderator: M. Tryfonidis	**Session 6B** | Terra Moderator: E. Daviloudis	**Session 6C** | Jupiter Moderator: L. Rorris	**Session 6D** | Saturn Moderator: K. Skolarikis	**Session 6E** | Venus Moderator: G. Korbetis	**Session 6F** | Mars Moderator: V. Karatsis
13:30 - 14:00	**Latest Developments in Machine Learning and AI** Dimitris Drougkas BETA / Cadence	**Synergy Between ANSA Pre-Processor and CFD++ Flow Solver for Automatic CFD Mesh Adaptation** Davide Muffo Leonardo Aircraft Division	**Trimmed IGA Shells and Solids in LS-DYNA: Latest Developments, Applications, and Studies** [1]Lukas F. Leidinger*, [1]Stefan Hartmann, [2]Dave Benson, [2]Liping Li, [2]Attila P. Nagy, [2]Lam Nguyen, [2]Marco Pigazzini [1]DYNAmore, an ANSYS Company, [2]ANSYS	**Latest Developments in ANSA/META for NVH Applications** Vassilis Pavlidis BETA / Cadence	[DEMO] **Enrich ANSA Results Mapper with Wider Range of Results by Exploiting META Advanced Capabilities** Ioannis Nerantzis BETA / Cadence	[DEMO] **HBM Handling in ANSA and META** Savvas Kelidis BETA / Cadence
14:00 - 14:30	**Optimization and Sensitivity Analysis of Spot-Welds in BiW Structures for High-Speed Crash** [1]Dr. Vitor Cores Finotto*, [1]Michal Styrnik, [2]Ionut Mihnea, [3]Michael Tryfonidis, [3]Zafeiria Kanellia* [1]BMW AG, [2]ARRK-Engineering GmbH, [3]BETA / Cadence	**Conversion of a Crash Model to Aerothermal Model Using ANSA for Cabin Solar Soak Analysis** Sacha Jelic ThermoAnalytics GmbH	**Pre-Processing Tools and Techniques for Building IGA Models** Ioannis Chalkidis, BETA / Cadence	[DEMO] **Statistical Energy Analysis (SEA) in ANSA: Model Preparation, Loadcase Setup, Validation, and Solution** Spyridon Vergos*, Aris Klotsikas* BETA / Cadence	[DEMO] **FATIQ: A Robust Fatigue Analysis Tool for Whole-Vehicle Applications Including Welded Components** Ioannis Karypidis BETA / Cadence	[DEMO] **Effective Strategies for Managing Crash Models in ANSA** Manos Dagdilelis BETA / Cadence
14:30 - 15:00	**Tailgate Optimization Utilizing Machine Learning** Kostantinos Rachoutis BETA / Cadence	**Automated CFD Workflow: Enhancing Aerodynamic Performance at POLIMI Motorcycle Factory** Francesco Buffoli*, Luca Piomboni* Polimi Motorcycle Factory	**Application of IGA to Automotive NVH Analysis** [1]Felipe Vieira, [1]Lluis Martorell*, [1]Ovidi Casals, [1]Angelica Sanchez, Courtesy of: [2]Xabier Larrayoz [1]Applus IDIADA, [2]SEAT-CUPRA		[DEMO] **The New Seamweld Designer** Kosmas Gourgounis BETA / Cadence	[DEMO] **ANSERS - A Web Tool to Visualize and Share Crash and Safety Results** Nikos Tsartsarakis BETA / Cadence
15:00 - 15:30	**Coffee Break & Technical Discussions** | Foyers					

10th BEFORE REALITY CONFERENCE - Agenda

DAY 2	THURSDAY JUNE 26, 2025 - Afternoon Sessions					
	Session 7A | Audimax Moderator: V. Migkos	**Session 7B** | Terra Moderator: I. Theodorou	**Session 7C** | Jupiter Moderator: I. Asaniotis	**Session 7D** | Saturn Moderator: Y. Kolokythas	**Session 7E** | Venus Moderator: D. Christias	**Session 7F** | Mars Moderator: K. Haliskos
15:30 - 16:00	**Development of an Automated Application for Creating Pedestrian Protection Performance Test Areas Using the ANSA Pedestrian Tool** Nobuaki Inagaki*, Naoki Takahashi, Sae Ohta Toyota Motor Corporation	**Latest Developments in EPILYSIS** Panagiotis Pantazidis BETA / Cadence	**New Durability Procedure for Virtual Shaker Table Using a Fully Trimmed Body as MNF Model** [1]Stephan Karlsson*, [1]Jens Weber*, [1]Pravin Ugale, [2]Ioannis Karypidis [1]Zeekr Tech AB / CAE Solidity & RLD, [2]BETA / Cadence	**Automated Structuring and Renaming of Entities in Simulation Models** Adam Kristek, Pavel Kostelecky Akkodis CZ s.r.o.	[DEMO] **The All-New CAD to CAE Workspace: Building and Maintaining Simulation Structures with Ease** Spyros Tzamtzis BETA / Cadence	[DEMO] **Optimizing Workflow with ANSA and Fidelity AutoSeal for Meshing, Modeling, and Simulation Set Up for Fidelity CFD Software** Vangelis Skaperdas BETA / Cadence
16:00 - 16:30	**Capturing Kinematics in Crashworthiness Optimization** [1]Dr.-Ing. Vitor Cores Finotto*, [1]Michal Styrnik*, [2]Michael Tryfonidis, [2]Kanellia Zafeiria [1]BMW AG, [2]BETA / Cadence	**Virtual Engineering Structural Analysis Solvers Benchmarking: EPILYSIS Competitive Assessment** Giuseppe Credo, Antonio Lesci Dumarey Automotive Italia S.p.A	**Automated Analysis of Slipping Failure in Bolted Joins Using Contact Forces** [1]Miroslav Zavrtalek*, [2]Christos Moulkiotis [1]Akkodis CZ, [2]BETA / Cadence	**Python Integration in the BETA Suite** Klearchos Thomopoulos BETA / Cadence	[DEMO] **Part Build Orchestrator: Streamlining the Path from CAD to Mesh** Pavlos Floratos*, Ioannis Charalampidis BETA / Cadence	[DEMO] **Coupling the ANSA SPH Solver with CFD Solvers** Stelios Kanellopoulos BETA / Cadence
16:30 - 17:00	**Latest Developments in ANSA/META for Crash and Safety Applications** Thanassis Fokylidis BETA / Cadence	**Efficient Bolt Loosening Analysis for Industrial Multi-Bolt Models** Michael Klein INTES	**MNF Creation and E-Line Method - Key Enablers to Evaluate Vehicle Body Distortion in MBD** [1]Lisa Lindkvist*, [1]Emma Olger*, [2]Ioannis Karypidis, [2]Milton Pena, [2]Jesper Bäcklund, [2]Peter Appelgren, [3]Henrik Marberg, [1]Pravin Ugale, [1]Jens Weber [1]Zeekr Tech AB / CAE Solidity & RLD, [2]BETA / Cadence, [3]Marberg Engineering AB	**META: Quick Component Evaluation** Ing. Krystof Kunc Akkodis CZ s.r.o.	[DEMO] **Enhancing Rail Vehicle Design Through Advanced Cross-Section Meshing** Haris Bezdemiotis BETA / Cadence	[DEMO] **META's Breakthrough in CFD Post-Processing Efficiency** Efi Chatzivasiloglou BETA / Cadence
17:00 – 17:30	**Streamlining Virtual Testing Crashworthiness (VTC) Assessments: An Integrated Pre- and Post-Processing Workflow Using ANSA and META** Manos Dagdilelis*, Thanasis Fokylidis, Nikos Tzolas BETA / Cadence	**Virtual Clamping and RETOMO: The Future of Virtual Quality Control** Panagiotis Pantazidis*, Evangelos Karatsis* BETA / Cadence	**Leveraging Multiscale Modeling for the Prediction of Composite Material Response** Vangelis Palaiokastritis BETA / Cadence		[DEMO] **Working with Complex Plastic Parts Made Easy** Dimitris Mavropoulos BETA / Cadence	[DEMO] **Anisotropic CFD Meshing for Aerospace and Motorsport Applications** Nikolaos Christodoulou BETA / Cadence
19:00 - 23:00	Buses Depart from the Science Congress Center: **18:15** **Reception - Dinner & Entertainment** | Augustiner-Keller Munich | Arnulfstrasse 52, 80335 Munich Return Buses Depart from Augustiner Keller: **23:15**					

DAY 3	FRIDAY JUNE 27, 2025 - Morning Sessions					
09:00 - 09:30	**Registration | Ground Floor Foyer & Welcome Coffee | Foyers**					
	Session 8A | Audimax Moderator: M. Dagdilelis	**Session 8B** | Terra Moderator: E. Chazaridis	**Session 8C** | Jupiter Moderator: V. Pavlidis	**Session 8D** | Saturn Moderator: K. Thomopoulos	**Demo Session 8E** | Venus Moderator: P. Fotopoulos	**Demo Session 8F** | Mars Moderator: I. Rizos
09:30 - 10:00	**Development of Scalable Human Body Model Based on Anthropometric Diversity Using ANSA's Scaling Tool** [1]Fenna Neumann, [2]Dr. Priti Yadav* [1]Volkswagen AG, [2]VAIVA GmbH	**Deployment of ANSA Pre-Processor at Ford Climate Control Systems Engineering** Igor Golberg Ford Produktentwicklung GmbH & Co. KG	**CMS and FBS Techniques in BETA CAE Software** Markus Herbst BETA / Cadence	**Automatization of FE Model Generation for PCBAS with ANSA-Python Interface** Michael Besenfelder*, MSc, Dr. Walter Hinterberger Engineering Center Steyr GmbH & CoKG	[DEMO] **Beyond Assembly: Mastering Model Hierarchy, Connections, and Penetrations with Cutting-Edge Navigation** Zafeiria Kanellia BETA / Cadence	[DEMO] **The New Easy Way to Store and Share Results Using META and ANSERS** Antonios Perifanis BETA / Cadence
10:00 - 10:30	**Positioning of Human Body Models in ANSA for Consumer Safety Testing Scenarios** Philipp Wernicke, Marius Rees, Dustin Draper*, Frank Bauer BMW AG	**Characterization of Wheel Wake by Realistic Tire Deformation Using Eddy-Resolving CFD Simulations** [1]Lukas Kutej*, [2]Johannes Burgbacher*, [2]Dennis Weidner [1]TU Darmstadt, [2]FKFS Forschungsinstitut für Kraftfahrwesen und Fahrzeugmotoren Stuttgart	**Reducing Vehicle Interior Noise Through Instantaneous Structural Intensity Analysis and Energy Control** Keisuke Abe SUBARU Corporation	**FEA Begins at Layout: Converting ECAD PCB Designs into Simulation-Ready Models** Nikolaos Drivakos BETA / Cadence	[DEMO] **Efficient and Fast Comparison of Multiple Models in META** Ioannis Karypidis BETA / Cadence	[DEMO] **Streamline of Pre and Post-Processing of Oil Canning Load Cases** Arsenis Zoumpourlos BETA / Cadence
10:30 - 11:00	**Pre-processing and Post-processing of HBMs in ANSA and META** Lambros Rorris BETA / Cadence	**Intelligent Aerodynamic Performance Predictions for Early Design Phases and Optimised Automotive Designs** [1]Eleftheria Kasimidou, [1]Nicholas Mitroglou*, [1]Giorgos Petkos, [2]Giacomo Alessi, [1]Grigoris Fotiadis [1]BETA / Cadence, [2]Cadence	**Streamlining Full Vehicle NVH Simulations in a Simulation Process and Data Management Environment** Konstantinos Anagnostopoulos*, Irene Makropoulou, Dimitrios Daniil BETA / Cadence		[DEMO] **Reporting in META: Unlocking the Power of Report Composer** Giorgios Michailidis BETA / Cadence	[DEMO] **Simplifying Shell Models to Beams: Speed, Accuracy, and High Design Flexibility** Nikos Efstathakis BETA / Cadence
11:00 - 11:30	**Behavior of Variant Human Body Models on Different Restraint Systems** Savvas Kelidis BETA / Cadence	**Coupled SPH-EPILYSIS Simulation and Experimental Validation During Vehicle Wading** [1]Stelios Kanellopoulos*, [2]Martin Sittenberger, [1]Ioannis Nerantzis [1]BETA / Cadence, [2]BMW AG	**Master Your Digital Twin: The Smart Path to Certification** Carine Kamtchueng Circoncellionne CK		[DEMO] **Significantly Reduced Storage Requirements Through Automated and Efficient Compression of Results Using METADB Translator** Nikolaos Tsartsarakis BETA / Cadence	[DEMO] **From Data Overload to Actionable Intelligence: ANSERS' Revolution in CFD Reporting** Efi Chatzivasiloglou BETA / Cadence
11:30 - 12:00	**Coffee Break & Technical Discussions** | Foyers					
	Session 9 | Audimax Moderator: I. Makropoulou					
12:00 - 12:30	**The SPDRM Ecosystem as a Foundation for AI** Georgios Nikolaidis, BETA / Cadence					
12:30 - 13:00	**Future Directions of BETA / Cadence Product Line** Dimitrios Siskos Sr. Group Director, Software Engineering, BETA / Cadence					
13:00 - 13:10	**Closing Remarks** Samouil Saltiel Sr. Group Director, Customer Service Engineering, BETA / Cadence					
13:10 - 14:30	**Farewell Lunch | Foyers**					

Venue plan

Floor 0

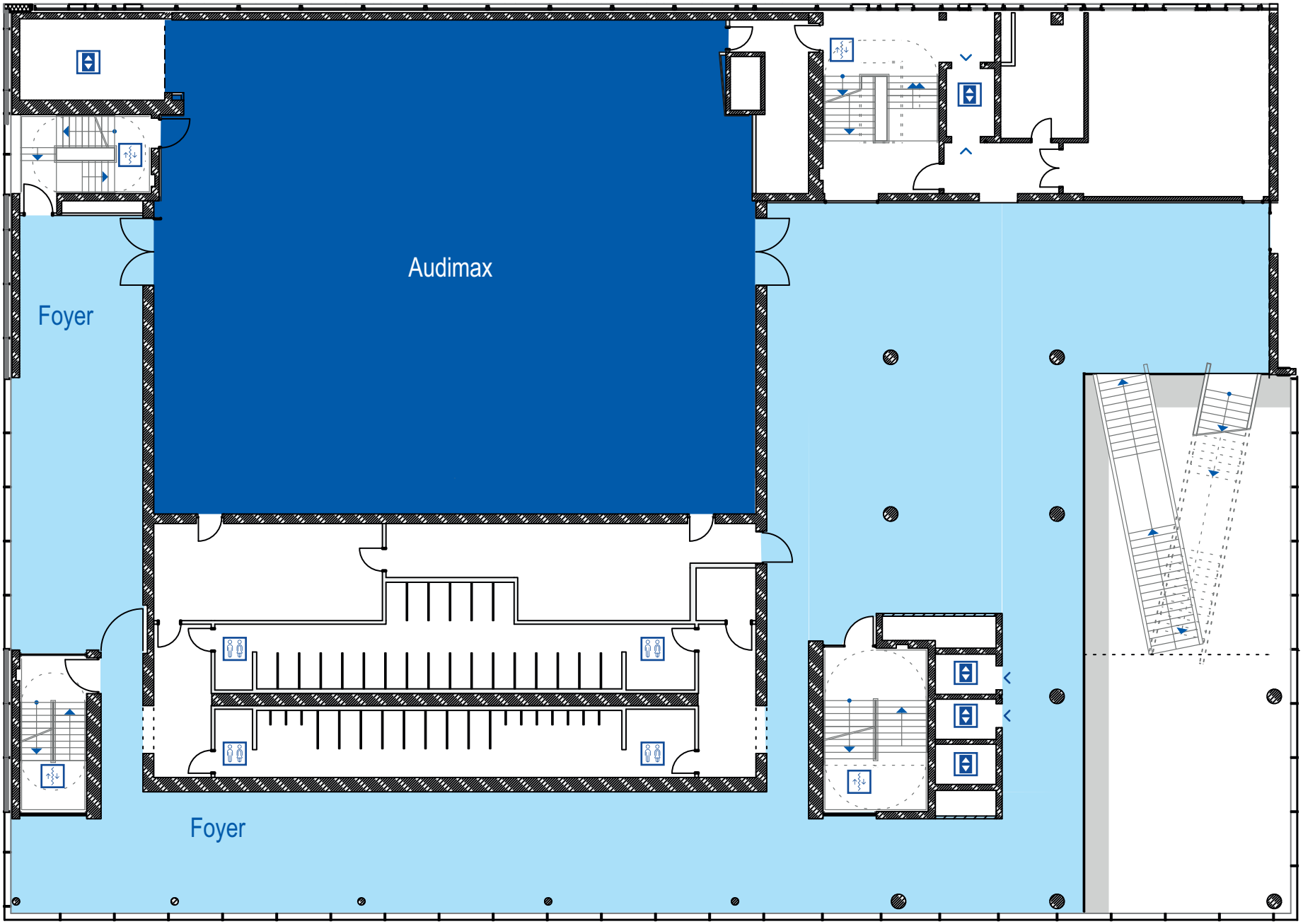
FLOOR MAPS KEY

- **Conference Rooms**
- **Technical discussions / VR / AR Area**
- **Private**
- **Restrooms**
- **Stairs**
- **Elevators**

Floor 1

FLOOR MAPS KEY

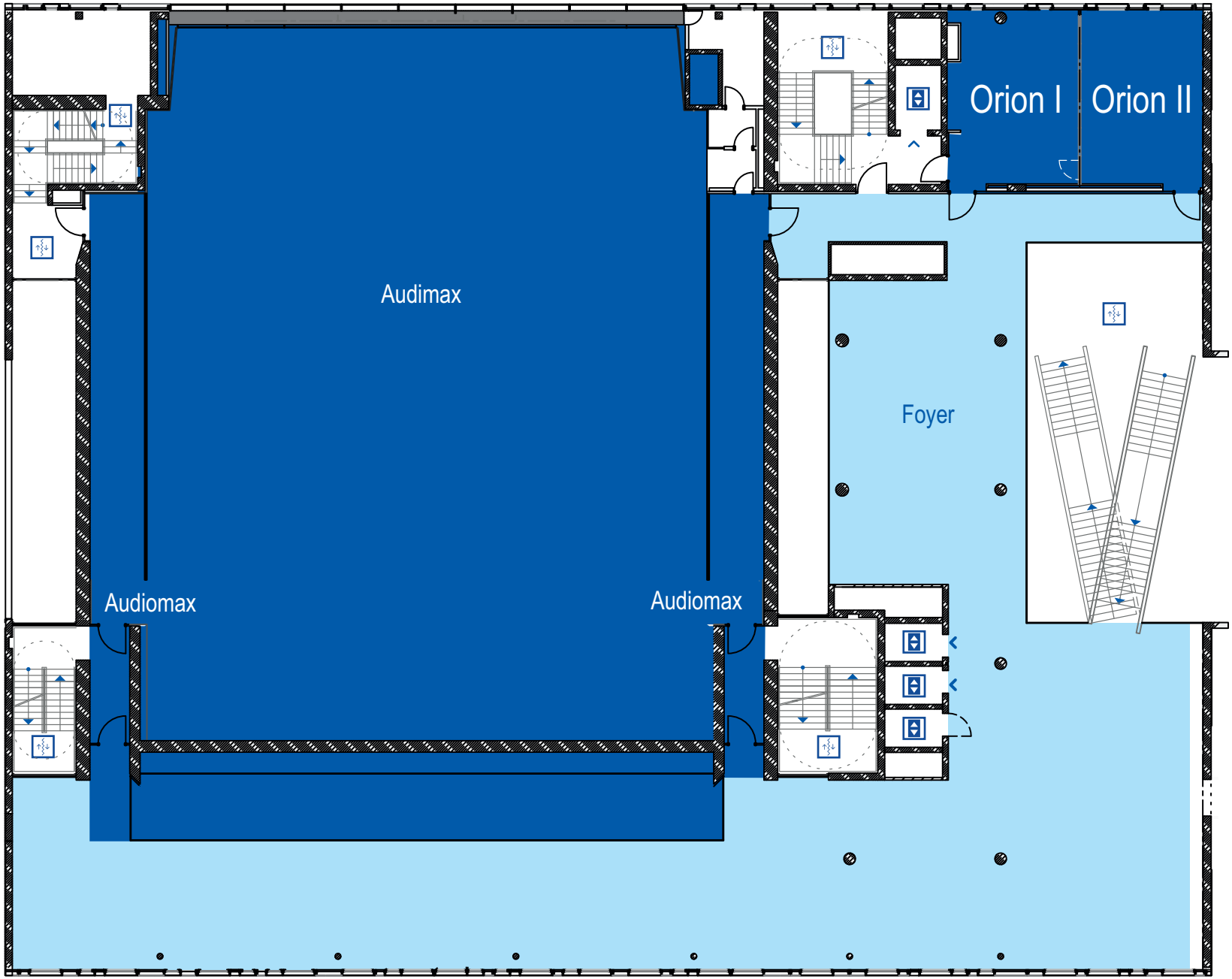
Conference Rooms
Foyer/Public Space
Private
Restrooms
Stairs
Elevators



Floor 2

FLOOR MAPS KEY

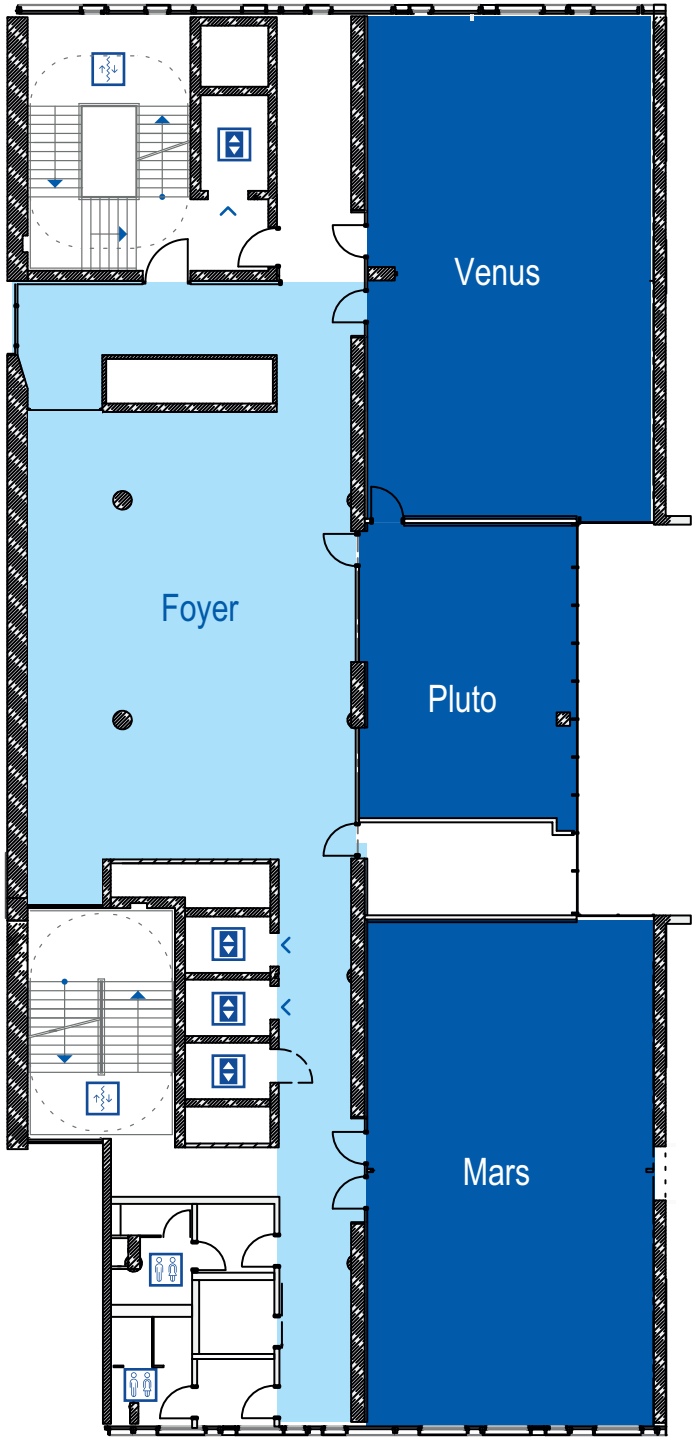
Conference Rooms / Meeting Rooms
Foyer/Public Space
Private
Restrooms
Stairs
Elevators



Floor 3

FLOOR MAPS KEY

- **Technical Demonstrations/ Meeting Room**
- **Foyer/Public Space Private**
- **Restrooms**
- **Stairs**
- **Elevators**



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