

9<sup>th</sup>

# BEFORE REALITY

June 14 - 16, 2023

CONFERENCE

Science Congress Center  
Munich, Germany

**event guide**





# Welcome

## **Welcome to the 9th 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

9<sup>th</sup>

**BEFORE  
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CONFERENCE

#BeforeReality

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## The Agenda at a Glance

DAY 1 - WEDNESDAY JUNE 14, 2023		
10:00 - 12:00	Welcome Coffee - Registration	Foyers
12:00 - 13:00	Conference Kick-off and Plenary Session	Audimax
13:00 - 14:00	Lunch	Foyers
14:00 - 15:30	Plenary Session	Audimax
15:30 - 16:00	Coffee Break & Technical discussions	Foyers
16:00 - 18:00	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn   Venus I, Venus II, Mars I
18:00 - 20:00	Drinks	Foyers

DAY 2 - THURSDAY JUNE 15, 2023		
08:30 - 09:00	Welcome Coffee - Registration	Foyers
08:30 - 10:30	Plenary Session	Audimax
10:30 - 11:00	Coffee Break & Technical discussions	Foyers
11:00 - 13:00	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn   Venus I, Venus II, Mars I
13:00 - 13:10	Group-photo Shooting	(TBA)
13:10 - 14:00	Lunch	Foyers
14:00 - 15:30	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn   Venus I, Venus II, Mars I
15:30 - 16:00	Coffee Break & Technical discussions	Foyers
16:00 - 18:00	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn   Venus I, Venus II, Mars I

18:30	Buses to dinner depart from Science Congress Center (TBC)	
19:00 - 23:00	Reception - Dinner & Entertainment	Augustiner-Keller Munich
23:00	Buses to Courtyard Munich Garching hotel depart (TBC)	

DAY 3 - FRIDAY JUNE 16, 2023		
09:00 - 09:30	Welcome Coffee - Registration	Foyers
09:00 - 10:30	Plenary Session	Audimax
10:30 - 11:00	Coffee Break & Technical discussions	Foyers
11:00 - 12:30	Breakout Sessions Technical Demonstrations	Audimax, Terra, Jupiter, Saturn   Venus I, Venus II, Mars I
12:30 - 14:00	Farewell Lunch	Foyers







# Agenda

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DAY 1 WEDNESDAY JUNE 14, 2023			
10:00 - 12:00	<b>Registration</b>   Ground Floor Foyer & <b>Welcome Coffee</b>   Foyers		
	<b>Session 1</b>   Audimax Moderator: C. Sferidou		
12:00 - 12:05	<b>Conference kick-off - Welcome</b> Chryssa Sferidou, BETA CAE Systems		
12:05 - 12:10	<b>Opening speech</b> Dimitris Angelis, Chairman, BETA CAE Systems		
12:10 - 12:40	<b>The evolution of BETA CAE Systems portfolio in a nutshell</b> Chryssa Sferidou, BETA CAE Systems		
12:40 - 13:00	<b>Building simulation capabilities in Rimac Technology</b> Kristina Šarović, Rimac - Technology		
13:00 - 14:00	<b>Lunch</b>   Foyers		
	<b>Session 2</b>   Audimax Moderator: M. Tryfonidis		
14:00 - 14:30	<b>Future directions of BETA CAE Systems product line</b> Dimitrios Siskos, BETA CAE Systems		
14:30 - 15:00	<b>A new user experience in ANSA</b> Dimitrios Zafeiropoulos, BETA CAE Systems		
15:00 - 15:30	<b>Development processes with seamless CAD integration in ANSA and DCM</b> <sup>1</sup> Bastian Näser*, <sup>2</sup> Michael Tryfonidis <sup>1</sup> BMW Group, <sup>2</sup> BETA CAE Systems		
15:30 - 16:00	<b>Coffee Break &amp; Technical discussions</b>   Foyers		
	<b>Session 3A</b>   Audimax Moderator: N. Drivakos	<b>Session 3B</b>   Terra Moderator: G. Korbetis	<b>Session 3C</b>   Jupiter Moderator: G. Nikolaidis
16:00 - 16:30	<b>Automation of ANSA and META to evaluate occupant performance and seat structure for robustness</b> Hemant Shettar, Yatin Kumbhar, Santosh Patil* BETA CAE Systems USA	<b>[ONLINE] Handling complex parameterization using ANSA for structural performance optimization</b> <sup>1</sup> Florin Morar, <sup>2</sup> Sudeep Chavare*, <sup>2</sup> Eric Gowen, <sup>1</sup> Ravi Nimbalkar, <sup>1</sup> Yatin Kumbhar <sup>2</sup> BETA CAE Systems USA, <sup>2</sup> General Motors	<b>Reintroducing KOMVOS as a simulation data and process management desktop client</b> Irene Makropoulou BETA CAE Systems
16:30 - 17:00	<b>Bulk positioning tool for impactors and barriers</b> <sup>1</sup> Sebastian Kreissl, <sup>1</sup> Dustin Draper*, <sup>2</sup> Berkay Atici <sup>1</sup> BMW Group, <sup>2</sup> ARRK Engineering GmbH	<b>Implementing an automated process for updating CATIA files for optimization purposes</b> <sup>1</sup> Isabella Gavarini*, <sup>2</sup> Zafeiria Kanellia, <sup>2</sup> Spyros Tzamtzis, George Pentsas, <sup>2</sup> Michael Tryfonidis <sup>1</sup> BMW <sup>2</sup> BETA CAE Systems	<b>Unlocking the power of process management with SPDRM</b> Spyros Tzamtzis BETA CAE Systems
17:00 - 17:30	<b>[ONLINE] Cutting-edge FMVSS201U targeting and head positioning at General Motors</b> <sup>1</sup> Bingfeng Fan*, <sup>1</sup> Liwu Zhou, <sup>1</sup> Keshavlal Rathi, <sup>2</sup> T. Lioras, <sup>2</sup> P. Katsonis, <sup>2</sup> T. Fokylidis <sup>1</sup> General Motors Company, <sup>2</sup> BETA CAE Systems	<b>Closing the Optimization cycle: incorporating CAD-design parameters</b> Michail Tryfonidis*, Zafeiria Kanellia, Spyros Tzamtzis BETA CAE Systems	<b>Simulations across borders: using SPDRM's multi-site collaboration to unite global teams</b> Menelaos Pappas BETA CAE Systems
17:30 - 18:00	<b>[ONLINE] Virtual evaluation of system connectivity</b> Christopher Raprager General Motors	<b>Latest and future developments in the Optimization Tool</b> Eva Ioannou BETA CAE Systems	<b>Streamlining data extraction from Teamcenter: latest approaches to CAE Structure creation and maintenance</b> Ioannis Haralampidis BETA CAE Systems
		<b>Latest and future developments in Morphing and Design Toolbar</b> Serafim Chatzimoisiadis BETA CAE Systems	
18:00 - 20:00	<b>Drinks</b>   Foyers		

WEDNESDAY JUNE 14, 2023				DAY 1
Registration   Ground Floor Foyer & Welcome Coffee   Foyers				10:00 - 12:00
				12:00 - 12:05
				12:05 - 12:10
				12:10 - 12:40
				12:40 - 13:00
Lunch   Foyers				13:00 - 14:00
				14:00 - 14:30
				14:30 - 15:00
				15:00 - 15:30
Coffee Break & Technical discussions   Foyers				15:30 - 16:00
<b>Session 3D   Saturn</b> Moderator: D. Zafeiropoulos	<b>Demo Session 3E   Venus I</b>	<b>Demo Session 3F   Venus II</b>	<b>Demo Session 3G   Mars I</b>	
<b>Mesh automation of runner systems for injection molding simulations</b> Christoph Mau LEGO System A/S	<b>DEEN for simulation driven design</b> Gerasimos Skouvaklis, Dimitris Chanopoulos* BETA CAE Systems	<b>Latest developments in Kinetics</b> Apostolos Paraschoudis BETA CAE Systems		16:00 - 16:30
<b>Adopt injection molding manufacturing effects to improve parts' crashworthiness</b> <sup>1</sup> Panagiotis Fotopoulos*, <sup>2</sup> Michael Richter* <sup>1</sup> BETA CAE Systems <sup>2</sup> MATFEM Ingenieurgesellschaft mbH			<b>META Automation: best practices and proven techniques</b> Emmanouil Kastrinakis BETA CAE Systems	16:30 - 17:00
<b>Efficient middle meshing: a benchmark on a headlight housing part</b> <sup>1</sup> Christos Sachanas*, <sup>2</sup> Simone Chirra BETA CAE Systems <sup>2</sup> BMW Group		<b>Simulation coupling and transferring of results across calculations</b> Ioannis Nerantzis BETA CAE Systems		17:00 - 17:30
<b>3D Mesh generation in ANSA for metal casting simulation with PROCAST - The Brembo automated process</b> <sup>1</sup> Panagiotis Fotopoulos*, <sup>2</sup> Federico Zaramella*, <sup>3</sup> Marcello Boschini, <sup>3</sup> Giacomo Valsecchi <sup>1</sup> BETA CAE Systems, <sup>2</sup> BETA CAE Italy, <sup>3</sup> Brembo S.p.A.			<b>Script development and package management using Virtual Environments and VSCode.</b> Klearchos Thomopoulos BETA CAE Systems	
Drinks   Foyers				18:00 - 20:00

DAY 2		THURSDAY JUNE 15, 2023 - Morning Sessions		
08:30 - 09:00	<b>Registration</b>   Ground Floor Foyer & <b>Welcome Coffee</b>   Foyers			
	<b>Session 4</b>   Audimax Moderator: C. Sferidou			
09:00 - 09:30	<b>New equivalent static load (ESL) creation procedure for complete vehicle</b> <sup>1</sup> Jens Weber*, <sup>2</sup> Luiz Ricardo, <sup>1</sup> Jesper Bäcklund <sup>1</sup> CEVT AB, <sup>2</sup> Politecnico Milano			
09:30 - 10:00	<b>ANSERS: The single point-of-truth for simulation and physical test data</b> Antonios Perifanis BETA CAE Systems			
10:00 - 10:30	<b>FATIQ - The comprehensive platform for streamlined fatigue analyses</b> George Korbetis BETA CAE Systems			
10:30 - 11:00	<b>Coffee Break &amp; Technical discussions</b>   Foyers			
	<b>Session 5A</b>   Audimax Moderator: M. Pappas	<b>Session 5B</b>   Terra Moderator: V. Skaperdas	<b>Session 5C</b>   Jupiter Moderator: I. Nerantzis	
11:00 - 11:30	<b>Streamlining simulation run preparation with an end-to-end modular methodology</b> Irene Makropoulou BETA CAE Systems	<b>Watertight simulation with SPH to preventing leakage in design stage</b> Jong Hyun Baek*, Chul Hong Lee Hyundai	<b>New features and enhancements in EPILYSIS</b> Panagiotis Pantazidis BETA CAE Systems	
11:30 - 12:00	<b>From Includes to a comprehensive CAE application environment</b> Carsten Höfer Hyundai Motor Europe Technical Center GmbH	<b>The integration of ANSA into the Climate Control systems engineering CFD process at Ford</b> <sup>1</sup> Konstantinos Haliskos*, <sup>2</sup> Igor Golberg <sup>1</sup> BETA CAE Systems, <sup>2</sup> FORD WERKE GmbH	<b>ANSA plugin of Virtual Strain Gauge utilities for FEMFAT</b> <sup>1</sup> Minoru Nakano*, <sup>2</sup> Kazumasa Kato <sup>1</sup> BETA CAE Systems Japan Inc., <sup>2</sup> MAGNA INTERNATIONAL JAPAN INC., Japan	
12:00 - 12:30	<b>Addressing challenges in the BiW model build-up process in AUDI AG</b> <sup>1</sup> Thanasis Fassas*, <sup>2</sup> Richard Lindner <sup>1</sup> BETA CAE Systems, <sup>2</sup> AUDI AG	<b>Advancing the virtual geometric representation of sealings on surrounding structures for precise simulation prediction in Aerodynamics Soiling and Aero-acoustics</b> Mattias Hejdesten, Volvo Group Trucks Technology	<b>Latest and future developments in simulations for durability and composites materials-made structures</b> Yiannis Asaniotis BETA CAE Systems	
12:30 - 13:00	<b>Closures deformation optimization considering Kinetic system</b> Jinsoo Shin Hyundai Motor Company		<b>Position effect of drain holes on crossmember for Side Poll Crush scenario</b> Serhat Soyer Siro Energy	
13:00 - 13:10	<b>Group-photo shooting</b>			
13:10 - 14:00	<b>Lunch</b>   Foyers			

THURSDAY JUNE 15, 2023 - Morning Sessions				DAY 2
Registration   Ground Floor Foyer & Welcome Coffee   Foyers				08:30 - 09:00
				09:00 - 09:30
				09:30 - 10:00
				10:00 - 10:30
Coffee Break & Technical discussions   Foyers				10:30 - 11:00
<b>Session 5D   Saturn</b> Moderator: L. Rorris	<b>Demo Session 5E   Venus I</b>	<b>Demo Session 5F   Venus II</b>	<b>Demo Session 5G   Mars I</b>	
<b>The application of an IGA body-in-white in a hybrid full car simulation</b> <sup>1</sup> Frank Bauer*, <sup>2</sup> Lukas Leidinger <sup>1</sup> BMW, <sup>2</sup> ANSYS	<b>A new approach for Geometry and Mesh handling</b> Dimitris Mavropoulos BETA CAE Systems	<b>ANSERS use cases</b> Antonis Perifanis BETA CAE Systems		11:00 - 11:30
<b>IGA technology validation for forefront crashworthiness CAE analysis</b> Pablo Cruz*, Lluís Martorell, Adrian Ros, Alejandro Dominguez Applus+ IDIADA	<b>Understand and exploit the capabilities of Batch Meshing</b> Nikolas Drivakos BETA CAE Systems		<b>FMI/FMU: Making detailed CAE simulation models accessible to all Engineers</b> Dimitrios Daniil BETA CAE Systems	11:30 - 12:00
<b>Isogeometric Analysis in LS-DYNA: pushing the frontiers of modern simulation</b> <sup>1</sup> Lukas Leidinger*, <sup>1</sup> Stefan Hartmann, <sup>2</sup> Frank Bauer, <sup>3</sup> Dave Benson, <sup>3</sup> Attila Nagy <sup>1</sup> DYNAmore GmbH, an ANSYS company, <sup>2</sup> BMW Group, <sup>3</sup> ANSYS	<b>Efficient middle meshing</b> Dimitrios Christias BETA CAE Systems	<b>ANSA and META for Occupant Safety</b> Manos Dagdilelis BETA CAE Systems	<b>ANSA's Graphview Tool</b> Eleftherios Daskalakis BETA CAE Systems	12:00 - 12:30
<b>Methods and tools for IGA models for LS-DYNA</b> Lambros Rorris, BETA CAE Systems	<b>Structured meshing: Challenges and solutions</b> Dimitris Mavropoulos BETA CAE Systems	<b>Modular Run Management for Pedestrian / FMVSS201U analysis</b> Antonis Perifanis BETA CAE Systems	<b>Design tools for the Analysts</b> Serafim Chatzimoisiadis BETA CAE Systems	12:30 - 13:00
				13:00 - 13:10
Group-photo shooting				13:00 - 13:10
Lunch   Foyers				13:10 - 14:00

DAY 2 THURSDAY JUNE 15, 2023 - Afternoon Sessions			
	<b>Session 6A</b>   Audimax Moderator: A. Fokylidis	<b>Session 6B</b>   Terra Moderator: G. Fotiadis	<b>Session 6C</b>   Jupiter Moderator:
14:00 - 14:30	<b>Bringing Human Body Models to life. The future in Safety simulations.</b> Lambros Rorris BETA CAE Systems	<b>Sensitized-RANS simulations of complex flows in conjunction with ANSA®: towards increasing efficiency</b> Louis Krüger*, Maximilian Bopp, Suad Jakirlic Technical University of Darmstadt	
14:30 - 15:00	<b>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</b> Dimitris Zouzias*, A.Fokylidis BETA CAE Systems	<b>Best-in-class CFD meshing for the aerospace sector</b> Vangelis Skaperdas BETA CAE Systems	
15:00 - 15:30	<b>Comparison of the injury risk prediction of the THOR-Reclined dummy and the THUMS HBM</b> <sup>1</sup> Pablo Lozano*, <sup>1</sup> Simona Roka, <sup>1</sup> Alessandro Gravina, <sup>1</sup> Genis Mensa, <sup>2</sup> William Marshall <sup>1</sup> Applus IDIADA, <sup>2</sup> CELLBOND		
15:30 - 16:00	<b>Coffee Break &amp; Technical discussions</b>   Foyers		
	<b>Session 7A</b>   Audimax Moderator: N. Tzolas	<b>Session 7B</b>   Terra Moderator: K. Haliskos	<b>Session 7C</b>   Jupiter Moderator: D. Daniil
16:00 - 16:30	<b>Model development and simulation process of customized numerical Human Body Models for the study and analysis of healthcare products</b> Alit Putra*, Mikael Almquist ALTEN Sweden	<b>Latest and future developments in ANSA and META for CFD</b> Grigoris Fotiadis BETA CAE Systems	<b>Latest and future developments in NVH</b> Vassilis Pavlidis BETA CAE Systems
16:30 - 17:00	<b>Geometric variation of pelvic bone in Human Body Models with focus on submarining risk</b> <sup>1</sup> Marius Rees*, <sup>2</sup> Prof. Dr. Steffen Peldschus, <sup>1</sup> Philipp Wernicke <sup>1</sup> BMW AG <sup>2</sup> LMU München, Biomechanik und Unfallforschung, Institut für Rechtsmedizin	<b>Suitability assessment of various meshing strategies for CFD applications</b> Nicholas Mitroglou, BETA CAE Systems UK	<b>Optimization of sound pressure and vibration levels in automobiles and response predictions using Deep Neural Networks</b> <sup>1</sup> Vinamra Gehlot*, <sup>1</sup> Thomas Roy, <sup>2</sup> Markus Herbst <sup>1</sup> EDAG Engineering GmbH, <sup>2</sup> BETA CAE Systems
17:00 - 17:30	<b>Addressing positioning challenges for ATDs and HBMs: embracing the ANSA approach in industrial safety applications</b> Thanassis Fokylidis*, BETA CAE Systems	<b>Introducing Flow360 - a fast and accurate CFD solver integrated with ANSA</b> Maciej Skarysz*, CJ Doolittle, Zongfu Yu Flexcompute	<b>Comparison of the numerical accuracy of Superelements and FRF Assembly</b> Markus Herbst BETA CAE Systems
17:30 - 18:00	<b>Advanced FE biomechanical positioning method</b> <sup>1</sup> Francesco Cappellino*, <sup>2</sup> Alessandro Sias <sup>1</sup> C.R.F. S.C.p.A, <sup>2</sup> FCA Italy S.p.A.		<b>Vibroacoustic coupling: a new approach</b> Kostas Skolarikis BETA CAE Systems
19:00 - 23:00	Buses leave at: 18:30 <b>Reception - Dinner &amp; Entertainment</b>   Augustiner-Keller Munich   Arnulfstrasse 52, 80335 Munich Return buses leave at: 23:30		

THURSDAY JUNE 15, 2023 - Afternoon Sessions				DAY 2
<b>Session 6D   Saturn</b> Moderator: I. Chalkidis	<b>Demo Session 6E   Venus I</b>	<b>Demo Session 6F   Venus II</b>	<b>Demo Session 6G   Mars I</b>	
<b>Isogeometric analysis in ANSA using local refinement and thb-splines</b> <sup>1</sup> Angelos Mantzaflaris*, <sup>2</sup> Ioannis Chalkidis, <sup>1</sup> Christos Karampatzakis <sup>1</sup> Inria Center of the French Riviera University, <sup>2</sup> BETA CAE Systems	<b>Key features and use cases of FATIO</b> Christos Tegos BETA CAE Systems	<b>New optimization capabilities in the NVH-Console</b> Grigorios Kalampoukas BETA CAE Systems		14:00 - 14:30
<b>Isogeometric contact analysis in G+Smo with preprocessing in ANSA</b> <sup>1</sup> Ch. Karampatzakis*, <sup>2</sup> Dr. A. Mantzaflaris, <sup>3</sup> Dr. I. Chalkidis, <sup>4</sup> Prof. Ch. Provatidis, <sup>1</sup> Prof. A. Mihailidis <sup>1</sup> AUTH, <sup>2</sup> Inria Sophia Antipolis, Université Côte d'Azur, <sup>3</sup> BETA CAE Systems, <sup>4</sup> NTUA		<b>Introducing Statistical Energy Analysis support in ANSA</b> Iraklis Gkoutas BETA CAE Systems	<b>Find optimal designs of your parametric ANSA model using the embedded Optimizers in the Optimization tool.</b> Eva Ioannou BETA CAE Systems	14:30 - 15:00
	<b>Introducing the redesigned Representative Volume Element (RVE) Generator Tool</b> Vangelis Palaiokastritis BETA CAE Systems		<b>An application example of the next generation approach to Crash Simulation Optimization, incorporating CAD-Design parameters</b> Zafeiria Kanellia BETA CAE Systems	15:00 - 15:30
<b>Coffee Break &amp; Technical discussions   Foyers</b>				15:30 - 16:00
<b>Session 7D   Saturn</b> Moderator: G. Kalaitzidis	<b>Demo Session 7E   Venus I</b>	<b>Demo Session 7F   Venus II</b>	<b>Demo Session 7G   Mars I</b>	
<b>ANSA and META for battery electromagnetic simulations</b> Athanasios Papadopoulos BETA CAE Systems	<b>Revamping Model Build: AI and Part Build at the service of CAE modeling teams</b> Pavlos Floratos BETA CAE Systems		<b>The pillar-functionality of the "stamp-crash" process</b> Klearchos Thomopoulos BETA CAE Systems	16:00 - 16:30
<b>Computational electromagnetics with ASERIS-BE™</b> <sup>1</sup> Benoît Chaigne*, <sup>2</sup> Christos Liontas <sup>1</sup> IMACS <sup>2</sup> BETA CAE Systems		<b>PERMAS from within BETA's CAE Suite</b> Kosmas Gourgounis BETA CAE Systems	<b>A productive way to replace areas with beam elements</b> Nikolaos Efstathakis BETA CAE Systems	16:30 - 17:00
<b>Thermal simulation of PCBs using ANSA ECAD Importer, ANSYS Fluent and META</b> <sup>1</sup> Christos Liontas*, <sup>1</sup> Athanasios Sideridis, <sup>2</sup> Alexis Sanjaime <sup>1</sup> BETA CAE Systems, <sup>2</sup> Thales	<b>Design Optimization in the Modular Environment: from setup to HPC submission and post-processing</b> M. Papastavropoulou BETA CAE Systems		<b>Connections navigator: a new approach to assembly validation</b> Zafeiria Kanellia BETA CAE Systems	17:00 - 17:30
<b>Automating meshing and thermal analysis for an EV battery pack with ANSA TAItherm and CoTherm</b> <sup>1</sup> Sacha Jelic*, <sup>2</sup> Daniel Woodford, <sup>2</sup> Eli Datema <sup>1</sup> ThermoAnalytics GmbH, <sup>2</sup> ThermoAnalytics Inc	<b>Data insights: Keeping track, discovering, process reviewing, and accelerating decision making</b> Panagiotis Mantzopoulos BETA CAE Systems	<b>From complex meshes to smooth surfaces: the new SubD approach</b> Konstantinos Kafkalas BETA CAE Systems	<b>Effortless hydrodynamic simulations with the ANSA SPH solver</b> Liana Vasiladioti BETA CAE Systems	17:30 - 18:00
<b>Reception - Dinner &amp; Entertainment   Augustiner-Keller Munich   Arnulfstrasse 52, 80335 Munich</b>				19:00 - 23:00
Buses leave at: 18:30 Return buses leave at: 23:30				

DAY 3 FRIDAY JUNE 16, 2023 - Morning Sessions			
09:00 - 09:30 <b>Registration</b>   Ground Floor Foyer & <b>Welcome Coffee</b>   Foyers			
<b>Session 8</b>   Audimax Moderator: K. Kiouptsidis			
09:30 - 10:00	<b>How to optimize the design of a car-body-structure by using Machine Learning</b> Fabiola Cavaliere*, Dr. Xabier Larrayoz SEAT S.A.		
10:00 - 10:30	<b>Machine Learning Tools for accelerating CAE and unleashing Design Exploration</b> Dimitris Drougkas* BETA CAE Systems		
10:30 - 11:00 <b>Coffee Break &amp; Technical discussions</b>   Foyers			
	<b>Session 9A</b>   Audimax Moderator: D. Zouzias	<b>Session 9B</b>   Terra Moderator: E. Palaioakritris	<b>Session 9C</b>   Jupiter Moderator: E. Kastrinakis
11:00 - 11:30	<b>Latest &amp; future developments in Crash and Safety</b> Thanassis Fokylidis*, Thanassis Lioras BETA CAE Systems	<b>Structural optimization of wing elements of an unmanned air vehicle</b> Andreas Psarros*, Georgios Savaidis Lab of Machine Elements and Machine Design, AUTH	<b>NEERE: Beyond maturity, as a communications and training platform</b> Gerasimos Skouvaklis BETA CAE Systems
11:30 - 12:00	<b>Optimization and quick verification of an electric vehicle side-frame design using Machine Learning methods</b> Christina Chatzigeorgiadou*, Athanasios Papadopoulos BETA CAE Systems	<b>FE analysis of closed cell aluminum foam under impact loading</b> <sup>1</sup> Nikolaos Michailidis*, <sup>2</sup> C. Tegos, <sup>1</sup> E. Smyrniaios, <sup>1</sup> F. Stergioudi, <sup>3</sup> G. Maliaris <sup>1</sup> Physical Metallurgy Laboratory, AUTH, <sup>2</sup> BETA CAE Systems, <sup>3</sup> Additive Manufacturing Laboratory, International Hellenic University	<b>Eliminating physical clamping processes with the aid of Engineering Simulation</b> Panagiotis Pantazidis BETA CAE Systems
12:00 - 12:30	<b>Prediction of Occupant safety utilizing Machine Learning and CARLA Autonomous drive simulation software</b> Dimitris Drougkas*, Panagiota Kagioglou BETA CAE Systems	<b>Simulation of shot peening implementing stochastic aspects</b> Christos Gakias*, Georgios Savaidis Laboratory of Machine Elements and Machine Design, AUTH	<b>Breaking down the interoperability barrier among different FEA software</b> Thanasis Fassas*, Georgios Mokios BETA CAE Systems
12:30 - 14:00 <b>Farewell Lunch</b>   Foyers			



FRIDAY JUNE 16, 2023 - Morning Sessions					DAY 3
Registration   Ground Floor Foyer & Welcome Coffee   Foyers					09:00 - 09:30
					09:30 - 10:00
					10:00 - 10:30
Coffee Break & Technical discussions   Foyers					10:30 - 11:00
<b>Session 9D   Saturn</b> Moderator: V. Karatsis	<b>Demo Session 9E   Venus I</b>	<b>Demo Session 9F   Venus II</b>	<b>Demo Session 9G   Mars I</b>	<b>Demo Session 9H   Mars II</b>	
<b>Exploring the latest developments in RETOMO</b> Vangelis Karatsis BETA CAE Systems	<b>Hexablock meshing for CFD</b> Antonis Karasavvidis BETA CAE Systems	<b>ECAD Importer: A gateway to FEA simulations for PCBs</b> Liana Vasiladioti BETA CAE Systems	<b>ANSA modelling for ACTRAN</b> Dimitrios Tasoulas BETA CAE Systems	<b>Machine Learning Design Variable and Feature-based training and simulation results prediction</b> Dimitris Drougkas BETA CAE Systems	11:00 - 11:30
<b>Latest developments and future roadmap of the BETA Development Platform</b> Yianni Kolokythas BETA CAE Systems	<b>Volume modularity in CFD models: a complete workflow</b> Nicholas Mitroglou BETA CAE Systems		<b>ANSA for NASTRAN Aeroelasticity</b> Dimitrios Tasoulas BETA CAE Systems		11:30 - 12:00
	<b>Fiber reinforced material CT Scan processing with RETOMO</b> Petros Michailidis*, Evangelos Karatsis BETA CAE Systems		<b>Latest developments and employment of NEERE as a training platform</b> Gerasimos Skouvaklis BETA CAE Systems		12:00 - 12:30
Farewell Lunch   Foyers					12:30 - 14:00





## Venue plan

# Floor 0

## FLOOR MAPS KEY

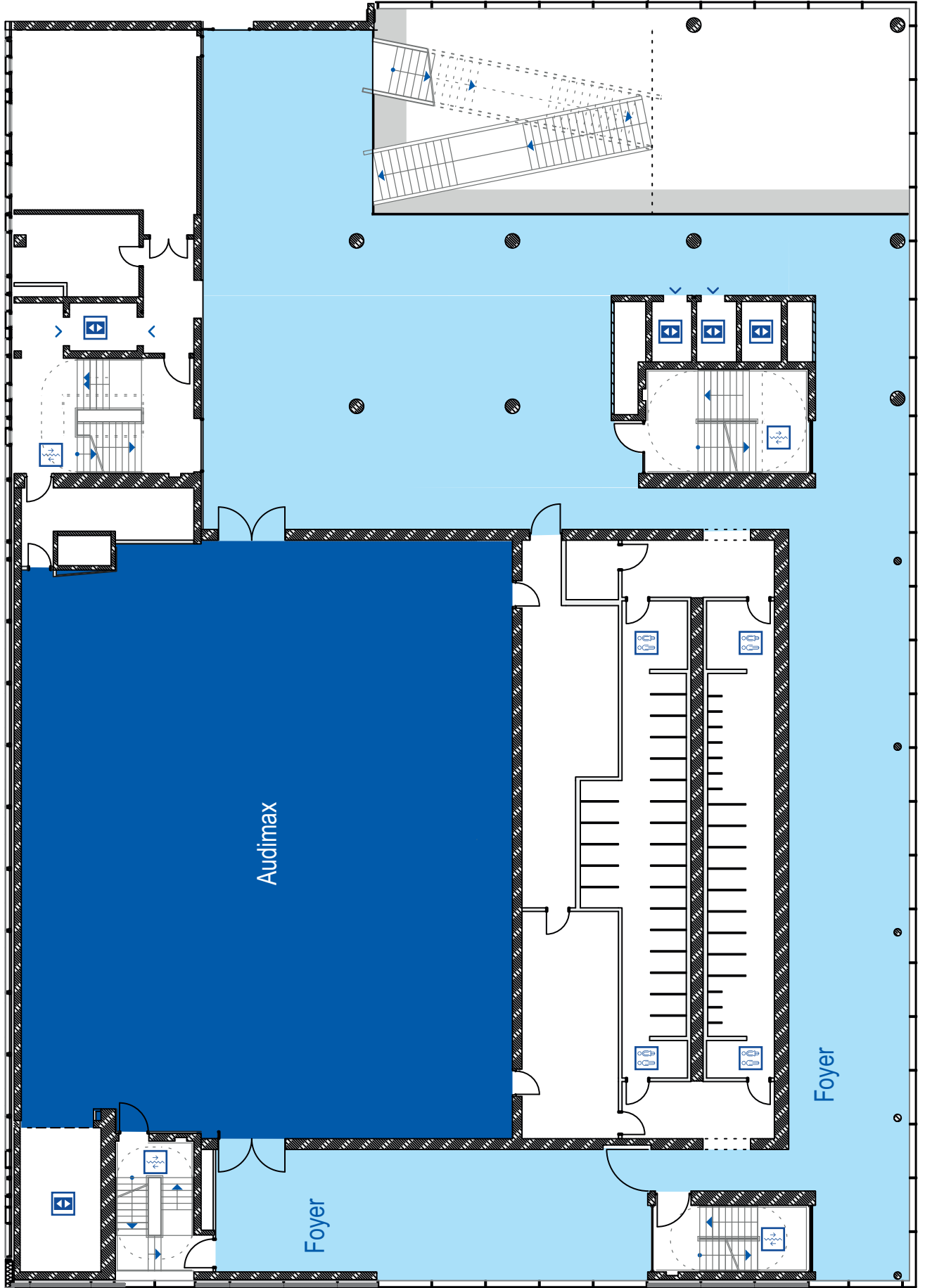
- Meeting/Conference Rooms
- Foyer/Public Space
- Private
- ♂  
♀ Restrooms
- ↕ Stairs
- ⬆  
⬇  
⬆ Elevators



FLOOR MAPS KEY

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

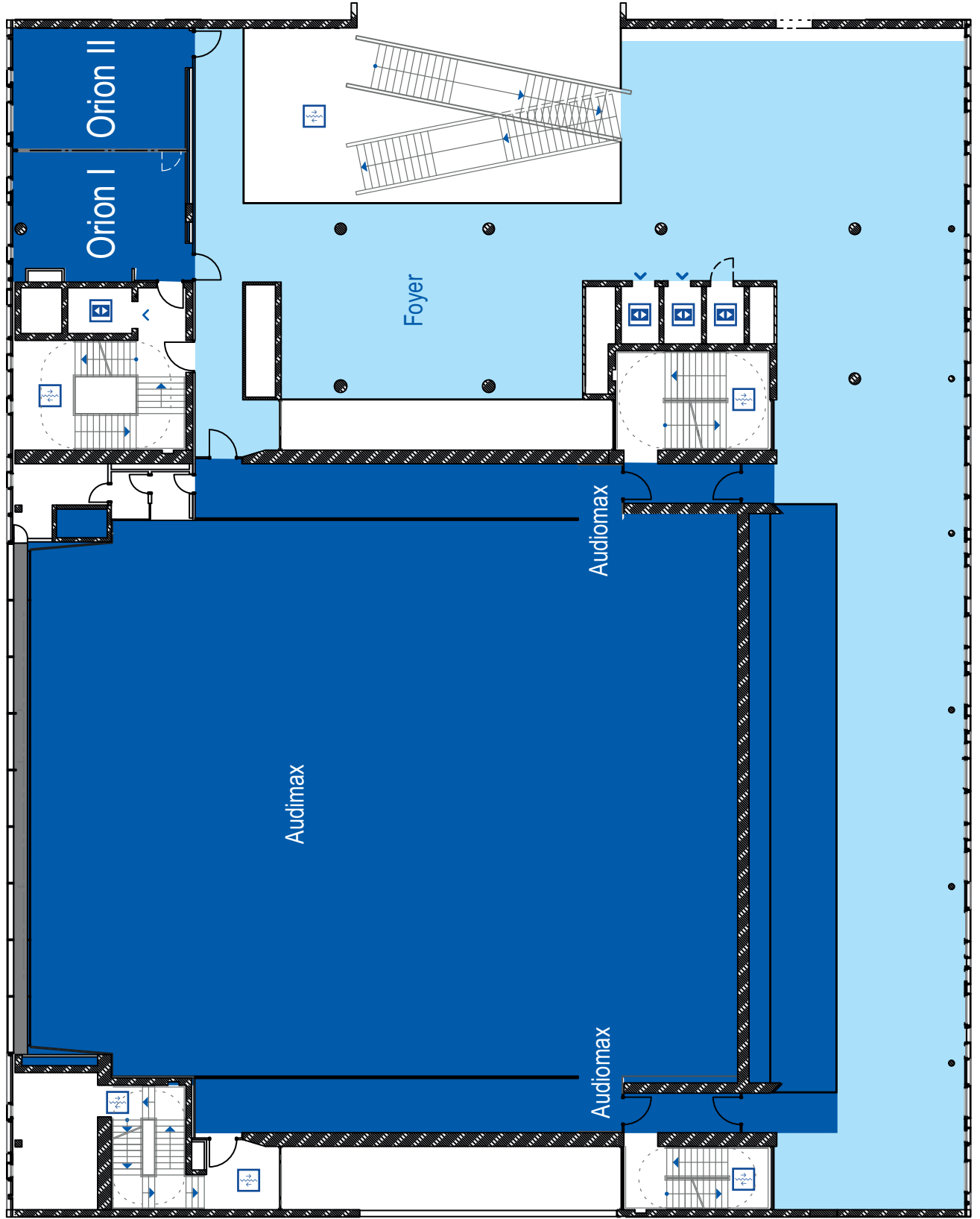
Floor 1



# Floor 2

## FLOOR MAPS KEY

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



# Floor 3

## FLOOR MAPS KEY

- Meeting/Conference Rooms
- Foyer/Public Space
- Private
- ♂  
♀ Restrooms
- ↕ Stairs
- ⬆  
⬇  
⬆ Elevators

