



# BEFORE REALITY

MAY 20 - 22, 2019

CONFERENCE

Hilton Munich Park  
Munich, Germany

**event guide**





## **Welcome to the 8th BEFORE REALITY CONFERENCE**

Thank you for honoring us with your participation to our biennial appointment and for contributing in making this event a milestone for the worldwide community of engineering simulation.

We at BETA, remain loyal to our mission to enable engineers deliver results of high value and we continue to offer state-of-the-art, high-performance software and best-in-class services. Our passion for engineering, our drive for excellence, and our loyalty to customers and partners are the key ingredients of our success. We embody our mission and values to our flagship products and brand new software by creating breakthrough advances. In this years' conference, you will be introduced to the results of our ongoing efforts to address complexity in the CAE processes.

During the three days of the conference, more than 100 presentations will outline the achievements and latest advances of our valued customers, in simulation strategies, methodology, techniques, and applications related to our products.

As with our previous event, the demo sessions, focused on carefully selected application domains, will highlight the latest groundbreaking functionality and implementations of our software.

Additionally, in the technology gallery, you will have the opportunity to engage in private or open technical discussions, and demonstrations with our executive, development, and service engineers and promote your interests and requests for future developments.

We take the opportunity to express our gratitude to all those who contributed to the conference with technical papers and presentations.

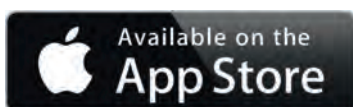
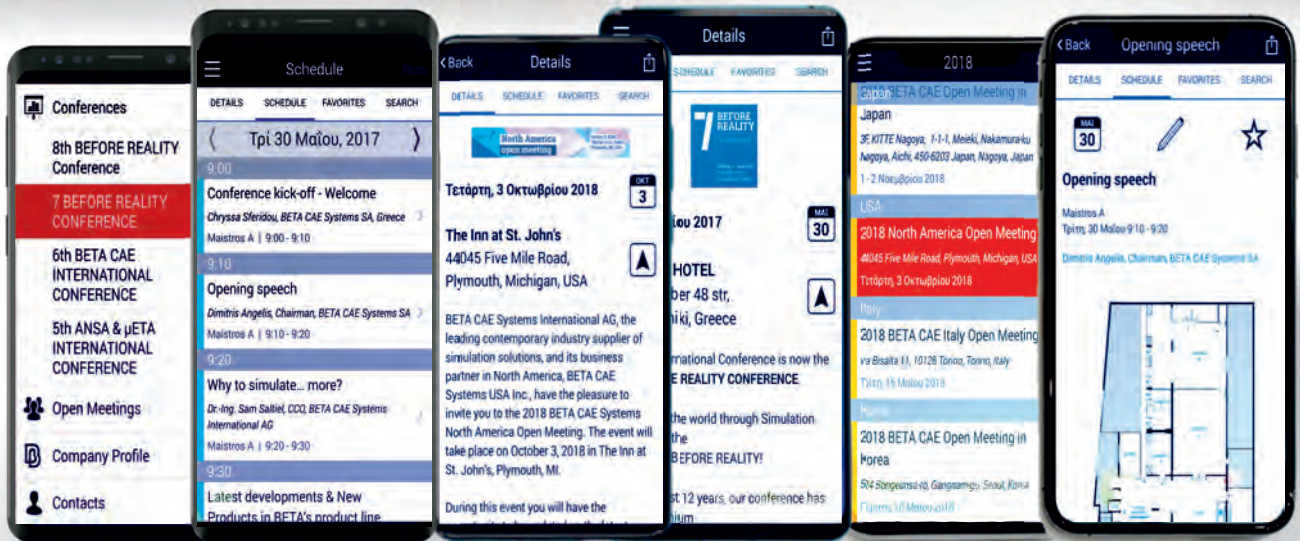
Download our application for mobile devices that will help you plan your attendance to the presentations of your preference.

We are waiting for you to join us and celebrate together our reunion at the Gala Dinner, on Tuesday evening.

We wish you a pleasant and beneficial stay during the conference and we are looking forward to meeting you at our next conference in 2021.



# Download your personal event guide





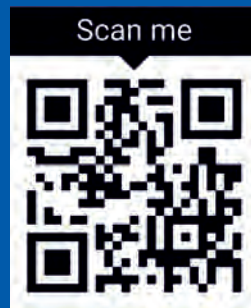
# Programme



# BEFORE REALITY

CONFERENCE

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View the agenda



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## The Agenda at a glance

Monday, May 20		
10:00 - 12:00	Welcome Coffee - Registration	Foyer & Foyer Mezzanine
12:00 - 13:00	Conference Kick-off and Plenary Session	Ballroom B
13:00 - 14:00	Lunch	Foyer & Foyer Mezzanine
14:00 - 15:30	Plenary Session	Ballroom B
15:30 - 16:00	Coffee Break & Technical discussions	Foyer & Foyer Mezzanine
16:00 - 18:00	Breakout Sessions Technical Demos	Ballrooms A, B, C, Salon Rumford   Salons Cézanne, Van Gogh, Picasso / Dali
18:00 - 20:00	Drinks	Foyer & Foyer Mezzanine

Tuesday, May 21		
08:00 - 08:30	Welcome Coffee - Registration	Foyer & Foyer Mezzanine
08:30 - 10:30	Plenary Session	Ballroom B
10:30 - 11:00	Coffee Break & Technical discussions	Foyer & Foyer Mezzanine
11:00 - 13:00	Breakout Sessions Technical Demos	Ballrooms A, B, C, Salon Rumford   Salons Cézanne, Van Gogh, Picasso / Dali
13:00 - 13:10	Group-photo Shooting	Foyer
13:10 - 14:00	Lunch	Foyer & Foyer Mezzanine
14:00 - 15:30	Breakout Sessions Technical Demos	Ballrooms A, B, C, Salon Rumford   Salons Cézanne, Van Gogh, Picasso / Dali
15:30 - 16:00	Coffee Break & Technical discussions	Foyer & Foyer Mezzanine
16:00 - 18:00	Breakout Sessions Technical Demos	Ballrooms A, B, C, Salon Rumford   Salons Cézanne, Van Gogh, Picasso / Dali
19:00 - 20:00	Reception	Salon Marco Polo
20:00 - 23:00	Dinner & Entertainment	Salon Marco Polo

Wednesday, May 22		
08:30 - 09:00	Welcome Coffee - Registration	Foyer & Foyer Mezzanine
09:00 - 10:30	Plenary Session	Ballroom B
10:30 - 11:00	Coffee Break & Technical discussions	Foyer & Foyer Mezzanine
11:00 - 13:00	Breakout Sessions Technical Demos	Ballrooms A, B, C, Salon Rumford   Salons Cézanne, Van Gogh, Picasso / Dali
13:00 - 14:00	Lunch	Foyer & Foyer Mezzanine
14:00 - 15:30	Breakout Sessions Technical Demos	Ballrooms A, B, C, Salon Rumford   Salons Cézanne, Van Gogh, Picasso / Dali
15:30 - 16:00	Coffee Break & Technical discussions	Foyer & Foyer Mezzanine
16:00 - 16:15	Closing Remarks - Farewell	Ballroom B

# Agenda

MONDAY MAY 20, 2019			
10:00 - 12:00	<b>Welcome Coffee - Registration</b>   Foyer & Foyer Mezzanine		
	<b>Session 1</b>   Ballroom B		
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 - 13:00	<b>Latest Developments &amp; New Products in BETA's product line</b> Chryssa Sferidou, BETA CAE Systems		
13:00 - 14:00	<b>Lunch</b>   Foyer & Foyer Mezzanine		
	<b>Session 2</b>   Ballroom B Moderator: I. Makropoulou		
14:00 - 14:30	<b>RENAULT Model Factory: management of Model Building</b> Laurent Noyelle, RENAULT SA		
14:30 - 15:00	<b>ANSA/META deployment in Groupe PSA</b> Jean-Christophe Carniel, Groupe PSA		
15:00 - 15:30	<b>Future developments in BETA's product line</b> Dimitrios Siskos, BETA CAE Systems International		
15:30 - 16:00	<b>Coffee Break &amp; Technical discussions</b>   Foyer & Foyer Mezzanine		
	<b>Session 3B</b>   Ballroom B Moderator: E. Ioannou	<b>Session 3A</b>   Ballroom A Moderator: N. Drivakos	<b>Session 3C</b>   Ballroom C Moderator: A. Fokilidis
16:00 - 16:30	<b>CAE Data Management and Standard Process Tooling: storyboard from RENAULT Group Model Factory</b> Jeremie Gomez RENAULT SA	<b>Case Study: collaboration for advanced process automation, General Motors &amp; BETA CAE</b> Joshua Sims <sup>1</sup> , Scott Larsen <sup>2</sup> <sup>1</sup> BETA CAE Systems USA, <sup>2</sup> General Motors	<b>The totally new evaluation scheme of JNCAP from 2020</b> Prof. Sadayuki Ujihashi BETA CAE Systems Japan
16:30 - 17:00	<b>Future Model-build-up process in ANSA using MODULEs</b> Dr. Jürgen Bruns Volkswagen AG	<b>Advancements in batch model preparation with the SDM-Console</b> Michael Tryfonidis BETA CAE Systems	<b>Multi Material Modeling with ANSA: an Application in the Automated Assembly Process at FORD</b> Thanassis Fokylidis <sup>2</sup> , Tunc Uzun <sup>1</sup> , Heiko Wuestner <sup>1</sup> , Niels Pasligh <sup>1,3</sup> , Vangelis Karatsis <sup>2</sup> , Chien Ping Mark Ng <sup>4</sup> <sup>1</sup> Ford Werke GmbH, <sup>2</sup> BETA CAE Systems, <sup>3</sup> RIC Aachen, <sup>4</sup> Ford Motor Company of Australia Ltd
17:00 - 17:30	<b>Automated checklist for intermediate deliveries</b> Julien Barbier Groupe PSA	<b>CAD shape recognition and mesh generation technique using ANSA script</b> Koji Otani Integral Technology Co., Ltd.	<b>Connection model automatic creation tool development at vehicle CAE model building</b> Takashi Nasu Nissan Automotive Technology / Vehicle CAE center
17:30 - 18:00	<b>Lead time reduction - Fast and easy setup of structure load cases using ANSA</b> Dr. Christoph Thiem Opel Automobile GmbH	<b>Exploration of meshing strategies for highly complex parts</b> Dimitris Zafeiropoulos <sup>1</sup> , Stylianos Karditsas <sup>2</sup> , Christos Sachanas <sup>2</sup> , Lazaros Adamoudis <sup>2</sup> , Michael Tryfonidis <sup>2</sup> <sup>1</sup> BETA CAE Systems International, <sup>2</sup> BETA CAE Systems	<b>Substructuring tools for effective pre- and post-processing</b> Nikolaos Nikoglou BETA CAE Systems
18:00 - 20:00	<b>Drinks</b>   Foyer & Foyer Mezzanine		



MONDAY MAY 20, 2019				
<b>Welcome Coffee - Registration</b>   Foyer & Foyer Mezzanine				10:00 - 12:00
				12:00 - 12:05
				12:05 - 12:10
				12:10 - 13:00
<b>Lunch</b>   Foyer & Foyer Mezzanine				13:00 - 14:00
				14:00 - 14:30
				14:30 - 15:00
				15:00 - 15:30
<b>Coffee Break &amp; Technical discussions</b>   Foyer & Foyer Mezzanine				15:30 - 16:00
<b>Session 3D</b>   Salon Rumford Moderator: G. Korbetis	<b>Demo Session 3E</b>   Salon Cézanne	<b>Demo Session 3F</b>   Salon Van Gogh	<b>Demo Session 3G</b>   Salon Picasso / Dali	
<b>Lattice Structures modeling: introduction to homogenization</b> Nikoleta Pasvanti <sup>1</sup> , Andreas Psarros <sup>1</sup> , George Korbetis <sup>2</sup> , Andreas Vlahinos <sup>3</sup> , Athanassios Mihailidis <sup>1</sup> <sup>1</sup> Aristotle University of Thessaloniki, <sup>2</sup> BETA CAE Systems, <sup>3</sup> Advanced Engineering Solutions			<b>Surface wrapping and Hextreme volume meshing</b> M. Di Nonno	16:00 - 16:30
<b>Rapid remodeling in ANSA/META for Additive Manufacturing design optimization</b> Xiao Chen <sup>1</sup> , George Korbetis <sup>2</sup> , Panagiotis Pantazidis <sup>2</sup> , Dimitrios Drougkas <sup>2</sup> <sup>1</sup> Ford Werke GmbH, <sup>2</sup> BETA CAE Systems				16:30 - 17:00
<b>Standardization of X-Attribute body assessment by coupling FEM and MKS</b> Emilie Debauche <sup>1</sup> , Markus Wick <sup>2</sup> , Markus Herbst <sup>3</sup> <sup>1</sup> Arrk P+Z Engineering, <sup>2</sup> Ford Werke GmbH, <sup>3</sup> BETA CAE Systems	<b>Graph View for connectivity information</b> T. Sarridis, K. Skolarikis	<b>META Template Manager</b> I. Karypidis	<b>META post-processing for CFD</b> G. Fotiadis	17:00 - 17:30
<b>EPILYSIS new tools and enhancements facilitate analysis set-up and improve solver performance</b> D. Siskos BETA CAE Systems International				17:30 - 18:00
<b>Drinks</b>   Foyer & Foyer Mezzanine				18:00 - 20:00

## TUESDAY MAY 21, 2019 - Morning Sessions

08:00 - 08:30	<b>Welcome Coffee - Registration</b>   Foyer & Foyer Mezzanine		
	<b>Session 4</b>   Ballroom B Moderator: L. Rorris		
08:30 - 09:00	<b>Isogeometric Analysis of local deformation and fracture for automotive frames</b> Kenji Takada Honda R&D Co., Ltd. Automobile R&D Center		
09:00 - 09:30	<b>Bringing reality into the virtual world</b> Eric DeHoff <sup>1</sup> , Kishore Pydimarry <sup>1</sup> , Santosh Patil <sup>2</sup> <sup>1</sup> Honda R&D Americas, Inc., <sup>2</sup> BETA CAE Systems USA		
09:30 - 10:00	<b>Automation of pre- and post-processing in Ferrari GT cars project</b> Dr. Luciano Mariella, Rubens Curatola Ferrari S.p.A		
10:00 - 10:30	<b>Complete vehicle CAD extraction, translation and quality report generation at CEVT</b> Jesper Bäcklund China Euro Vehicle Technology AB		
10:30 - 11:00	<b>Coffee Break &amp; Technical discussions</b>   Foyer & Foyer Mezzanine		
	<b>Session 5B</b>   Ballroom B Moderator: K. Gourounis	<b>Session 5A</b>   Ballroom A Moderator: T. Klotsikas	<b>Session 5C</b>   Ballroom C Moderator: S. Seitanis
11:00 - 11:30	<b>Superelement welds for productive car development</b> Nils Himmelsbach <sup>1</sup> , Christian Graber <sup>1</sup> , Michael Tryfonidis <sup>2</sup> <sup>1</sup> BMW Group, <sup>2</sup> BETA CAE Systems	<b>NVH post-processing automation</b> Dr. Martin Schönecker Opel Automobile GmbH, Groupe PSA	<b>Crash Management system optimization tool in ANSA and META</b> Pedro Ruiz, Ricardo Liñan, Alvaro Arconada SOLUTE
11:30 - 12:00	<b>Improvement of evaluation efficiency by 3D report</b> Seiichi Takakuwa Honda R&D Co., Ltd Automobile Center	<b>Evaluation of vehicle interior noise based on loads from a Multi Body Analysis - An integrated BETA suite solution for addressing non-linear mounts</b> Markus Herbst, Apostolos Paraschoudis, BETA CAE Systems	<b>ANSA for FMVSS201U: a flexible process</b> Thanassis Fokylidis <sup>1</sup> , Israel Corriolo <sup>2</sup> , Carlos Cano <sup>2</sup> , Hector Hernandez <sup>2</sup> , Joanna Rakowska <sup>3</sup> <sup>1</sup> BETA CAE Systems, <sup>2</sup> FORD of Mexico, <sup>3</sup> FORD Motor Company
12:00 - 12:30	<b>Migration of a post-processing process: from Medina to META</b> Urs Stefan Jedrkowiak, Thomas Brandt, Alexander Schwarzkopf Rheinmetall Automotive AG	<b>How did we realize SPDRM and where will we go? - part I</b> Haruki Kubokawa <sup>1</sup> , Irene Makropoulou <sup>2</sup> , Antonis Perifanis <sup>2</sup> <sup>1</sup> HONDA R&D Co., Ltd. Automobile R&D Center, <sup>2</sup> BETA CAE Systems	<b>CAE modeling of bolts for crash</b> Jens Raine, Per-Anders Eggertsen, Simon Rydberg Volvo Cars Corporation
12:30 - 13:00	<b>ANSA: one of the CAE analysts' best friends</b> Edoardo Ferrante, Dr. Emiliano Costa, Sergio Macchiavello, Alberto Rossi, Maurizio Iannolo, Alessandro Bozzolo, Andrea Trevisi RINA Consulting	<b>How did we realize SPDRM and where will we go? - part II</b> Haruki Kubokawa <sup>1</sup> , Irene Makropoulou <sup>2</sup> , Antonis Perifanis <sup>2</sup> <sup>1</sup> HONDA R&D Co., Ltd. Automobile R&D Center, <sup>2</sup> BETA CAE Systems	<b>Crash Load Paths Analysis based on Field Line Visualization in META post-processor</b> Lailong Song <sup>1</sup> , Rainer Moll <sup>2</sup> , Michael Tryfonidis <sup>3</sup> , Sideridis Athanasios <sup>3</sup> , Fabian Duddeck <sup>4</sup> <sup>1</sup> BMW Group, <sup>2</sup> IDIADA Fahrzeugtechnik GmbH, <sup>3</sup> BETA CAE Systems, <sup>4</sup> Technical University of Munich
13:00 - 13:10	<b>Group-photo shooting</b>   Foyer		
13:10 - 14:00	<b>Lunch</b>   Foyer & Foyer Mezzanine		

## TUESDAY MAY 21, 2019 - Morning Sessions

<b>Welcome Coffee - Registration</b>   Foyer & Foyer Mezzanine		08:00 - 08:30
		08:30 - 09:00
		09:00 - 09:30
		09:30 - 10:00
		10:00 - 10:30
<b>Coffee Break &amp; Technical discussions</b>   Foyer & Foyer Mezzanine		10:30 - 11:00
<b>Session 5D</b>   Salon Rumford Moderator: N. Mitroglou		
<b>Building a full UAV aerodynamic database using ANSA pre-processor automated meshing tool</b> Danny Gilad Elbit Systems		11:00 - 11:30
<b>Aerodynamic Design of Unmanned Aerial Vehicles with innovative layouts, using low and high-fidelity numerical tools</b> Prof. Kyros Yakinthos <sup>1</sup> , Pericles Panagiotou <sup>2</sup> , Pavlos Kaparos <sup>2</sup> <sup>1</sup> Aristotle University of Thessaloniki, <sup>2</sup> UAV-iRC		11:30 - 12:00
<b>Investigation of aerodynamic loading on a train pantograph</b> Dr. Konstantinos Ritos, Craig Roddick, Dr. Ioannis Kokkinakis University of Strathclyde		12:00 - 12:30
<b>Computational Haemodynamics in arterial geometries in relation to obesity-induced cardiovascular diseases</b> Dr. Asimina Kazakidi University of Strathclyde		12:30 - 13:00
<b>Group-photo shooting</b>   Foyer		13:00 - 13:10
<b>Lunch</b>   Foyer & Foyer Mezzanine		13:10 - 14:00

## TUESDAY MAY 21, 2019 - Afternoon Sessions

	<b>Session 6B</b>   Ballroom B Moderator: N. Economidis	<b>Session 6A</b>   Ballroom A Moderator: T. Sarridis	<b>Session 6C</b>   Ballroom C Moderator: E. Iordanidou
14:00 - 14:30	<b>Discovering the anatomy of a shock absorber with the aid of Computed Tomography and beyond</b> Dr. E. Karatsis, P. Michailidis, I. Mezitis, BETA CAE Systems	<b>Efficient time dependent reliability analysis of large systems under Non-Gaussian loading</b> S. Patil <sup>1</sup> , Z. P. Mourelatos <sup>2</sup> , V. Tsianika <sup>1</sup> , D. Papadimitriou <sup>1</sup> <sup>1</sup> BETA CAE Systems USA, <sup>2</sup> Oakland University	<b>Stamp-Crash process: coupling of Forming and Crash Simulations at BMW</b> Dr. Janine Mergel <sup>1</sup> , Andreas Ickes <sup>1</sup> , Marcel Meder <sup>1</sup> , Michael Tryfonidis <sup>2</sup> , Helga Reith <sup>1</sup> <sup>1</sup> BMW Group, <sup>2</sup> BETA CAE Systems
14:30 - 15:00	<b>Composite life prediction model for leaf springs using Finite Element model and testing</b> Kishore Mysore Nagaraja, Hrushikesh Patil, Sharanbassappa Patil, Suresh Nagesh PES University	<b>TYRE FEA modelling using ANSA &amp; META</b> Kesava Reddy Koduru <sup>1</sup> , Shivakumar Biradar <sup>1</sup> , Athanasios Papadopoulos <sup>2</sup> , Markus Herbst <sup>2</sup> <sup>1</sup> BETA CAE Systems India, <sup>2</sup> BETA CAE Systems	<b>Addressing the challenge of late design stage optimization: a passenger car Side Impact case</b> Michael Tryfonidis, Eva Ioannou BETA CAE Systems
15:00 - 15:30	<b>Beam modeling: new developments</b> Kostas Skolarikis <sup>1</sup> , Vasileios Evangelou <sup>2</sup> <sup>1</sup> BETA CAE Systems International, <sup>2</sup> BETA CAE Systems	<b>ANSA as pre-processor for Code_aster</b> Roman Fraczak, Maciej Czaplinski Nobo Solutions	<b>Crash loadcase setup using Include Configurator tool</b> Rajiv Pillai Volvo Group Trucks Technology
15:30 - 16:00	<b>Coffee Break &amp; Technical discussions</b>   Foyer & Foyer Mezzanine		
	<b>Session 7B</b>   Ballroom B Moderator: Y. Kolokythas	<b>Session 7A</b>   Ballroom A Moderator: D. Drougkas	<b>Session 7C</b>   Ballroom C Moderator: L. Iannetti
16:00 - 16:30	<b>The ANSA / LS-DYNA approach for Isogeometric Analysis Simulations</b> Lambros Rorris <sup>1</sup> , Attila Nagy <sup>2</sup> , Stefan Hartmann <sup>3</sup> , Ioannis Chalkidis <sup>4</sup> , Anastasios Vafeidis <sup>4</sup> <sup>1</sup> BETA CAE Systems International, <sup>2</sup> Livermore Software Technology Corporation, <sup>3</sup> DYNAmore GmbH, <sup>4</sup> BETA CAE Systems	<b>χMCF v3.0: An interface standard for exchanging weld information within CAD/CAE</b> Dr. Genbao Zhang <sup>1</sup> , Carsten Franke <sup>2</sup> , FAT AK-25 <sup>1</sup> Volkswagen AG, <sup>2</sup> PROSTEP AG	<b>Cellbond-Phitec Finite Element Q-series Crash-Test-Dummy seating procedure, ANSA perspective</b> Daniele Speziani <sup>1</sup> , Petros Goutas <sup>2</sup> , Chamila Bamunuarachchige <sup>2</sup> , Elena Riscaldina <sup>1</sup> , Michela Vaira <sup>1</sup> <sup>1</sup> Phitec Ingegneria Srl, <sup>2</sup> Cellbond
16:30 - 17:00	<b>Connecting Design and Analysis: Explicit Isogeometric Analysis using ANSA and LS-DYNA</b> Lukas Leidinger <sup>1</sup> , Stefan Hartmann <sup>2</sup> , Lambros Rorris <sup>3</sup> , Roland Wüchner <sup>4</sup> , Fabian Duddeck <sup>4</sup> , Lailong Song <sup>1</sup> <sup>1</sup> BMW Group, <sup>2</sup> DYNAmore GmbH, <sup>3</sup> BETA International, <sup>4</sup> TU Munich	<b>Multidisciplinary spotweld optimization using OPTIM WELDS</b> R. Nimbalkar <sup>1</sup> , T. Jankowiak <sup>1</sup> , V. Gandhi <sup>1</sup> , R. Bhojan <sup>2</sup> , A. Kurane <sup>2</sup> , A. Coppe <sup>2</sup> , J. Sims <sup>1</sup> , J. Rakowska <sup>2</sup> , R. T. Katragadda <sup>2</sup> <sup>1</sup> BETA CAE Systems USA, <sup>2</sup> Ford Motor Company	<b>Automation process for Occupant Safety models with ANSA and LS-DYNA</b> Dimitrios Perperidis, Michael Meyer, Maximilian Beck, Matthias Bauer, Bruno Clement, Peter Protsch PSW automotive Engineering GmbH
17:00 - 17:30	<b>Scripting and the World Beyond</b> Constantin Diez LASSO GmbH	<b>Feature based morphing: a radical change in concept and detailed modeling</b> Eva Ioannou, George Korbetis BETA CAE Systems	<b>Evaluation of occupant injury results using META focus on THOR</b> Fabian Heil, Ricardo Tejero de la Piedra Opel Automobile GmbH
17:30 - 18:00	<b>METAdb as a high-performance results container</b> Antonis Perifanis BETA CAE Systems	<b>Automation of multi-disciplinary analysis processes with ANSA/META and optiSLang</b> Dr. Lars Gräning Dynardo GmbH	<b>Modelling of detailed subject-specific FE rib models for fracture prediction</b> Linus Lundin <sup>1</sup> , Dr. Johan Iraeus <sup>2</sup> , Simon Storm <sup>1</sup> , Bengt Pipkorn <sup>3</sup> <sup>1</sup> AF Industry, <sup>2</sup> Chalmers University of Technology, <sup>3</sup> Autoliv Development
19:00 - 23:00	<b>Reception - Dinner &amp; Entertainment</b>   Salon Marco Polo		

## TUESDAY MAY 21, 2019 - Afternoon Sessions

TUESDAY MAY 21, 2019 - Afternoon Sessions				
<b>Session 6D</b>   Salon Rumford Moderator: A. Iordanidis	<b>Demo Session 6E</b>   Salon Cézanne	<b>Demo Session 6F</b>   Salon Van Gogh	<b>Demo Session 6G</b>   Salon Picasso / Dali	
<b>External Flow Analysis (CFD) for an Airborne Gimbal</b> David Lozano Elbit Systems – ISTAR	<b>NEERE: New product demonstration</b> V. Souliotis, S. Kleidarias	<b>Latest developments in meshing of structural parts</b> D. Zafeiropoulos	<b>Topology optimization using EPILYSIS and ANSA &amp; META workflow - Beam-section optimization</b> D. Drougkas	14:00 - 14:30
<b>Roof racks aerodynamic optimization for a utility vehicle</b> Inaki Caldichoury, Facundo Del Pin, Rodrigo Paz, Chien-Jung Huang LSTC		<b>Mid-surfacing of Casting parts - Challenges and solutions</b> D. Zafeiropoulos		14:30 - 15:00
<b>Latest Development in Volume Meshing for CFD</b> Vangelis Skaperdas BETA CAE Systems	<b>The state of the BETA Development Platform</b> Y. Kolokythas		<b>Design optimization set up using the new Optimization Tool</b> E. Ioannou	15:00 - 15:30
<b>Coffee Break &amp; Technical discussions</b>   Foyer & Foyer Mezzanine				15:30 - 16:00
<b>Session 7D</b>   Salon Rumford Moderator: V. Skaperdas	<b>Demo Session 7E</b>   Salon Cézanne	<b>Demo Session 7F</b>   Salon Van Gogh	<b>Demo Session 7G</b>   Salon Picasso / Dali	
<b>Multidisciplinary simulation of automotive water pumps</b> Dr. Remo De Donno Industrie Saleri Italo	<b>NVH pre-test analysis and Modal Parameter Estimation (MPE)</b> M. Herbst	<b>Durability Load-Cases set-up with the new Load-Case Assistant of ANSA</b> Y. Asaniotis	<b>RETOMO: The new era of segmentation exploiting Machine Learning</b> P. Michailidis, V. Karatsis	16:00 - 16:30
<b>Design and CFD analysis of a new rotary gas compressor</b> Dimitris Vogiatzis <sup>2</sup> , Evangelos Mallios <sup>1</sup> , Savvas Savvakis <sup>1</sup> , Zisis Samaras <sup>2</sup> , <sup>1</sup> theSARMproject, <sup>2</sup> Aristotle University of Thessaloniki				16:30 - 17:00
<b>Automated Morphing and Optimization of blade assemblies in aerospace and automotive applications</b> Raghu Mohan Reddy Suravaram, Ravi Nimbalkar, Joshua Sims BETA CAE Systems USA	<b>Squeak &amp; Rattle using EPILYSIS</b> S. Porikis	<b>Modular Run Management in a collaborative environment, for analysts and teams</b> C. Kougioumtzoglou, I. Makropoulou	<b>Material modeling techniques</b> I. Nerantzis, E. Palaioikastritis	17:00 - 17:30
<b>The pre-processing priority in Fluid-Dynamics Design</b> Dr. Marco Maganzi <sup>1,2</sup> , Giovanni Lombardi <sup>1</sup> , Antonio Ercoli <sup>1</sup> <sup>1</sup> University of Pisa, <sup>2</sup> CubitLab				17:30 - 18:00
<b>Reception - Dinner &amp; Entertainment</b>   Salon Marco Polo				19:00 - 23:00

WEDNESDAY MAY 22, 2019 - Morning Sessions			
08:30 - 09:00 <b>Welcome Coffee - Registration   Foyer Foyer &amp; Foyer Mezzanine</b>			
<b>Session 8   Ballroom B</b> Moderator: M.Tryfonidis			
09:00 - 10:00	<b>BMW - Next Level Engineering: digitalization of know-how in vehicle development</b> Gagan Saket <sup>1</sup> , Hans-Peter Daunert <sup>1</sup> , Michael Tryfonidis <sup>2</sup> <sup>1</sup> BMW Group, <sup>2</sup> BETA CAE Systems		
10:00 - 10:30	<b>FE-Basis Model, The birth of a digital assembly line</b> Paul-Edouard Munch Dr.Ing.h.c.F. Porsche AG		
10:30 - 11:00 <b>Coffee Break &amp; Technical discussions   Foyer &amp; Foyer Mezzanine</b>			
	<b>Session 8B   Ballroom B</b> Moderator: A. Zampoukas	<b>Session 8A   Ballroom A</b> Moderator: A. Fassas	<b>Session 8C   Ballroom C</b> Moderator: M. Giannakidis
11:00 - 11:30	<b>Multidisciplinary topology and parametric optimization of a BiW, following a unique holistic Process within ACP OpDesign</b> Alexis Kaloudis BETA CAE Systems International	<b>Modelling of casting structures - A comprehensive investigation</b> Dr. Octavian Knoll <sup>1</sup> , Michael Tryfonidis <sup>2</sup> <sup>1</sup> BMW Group, <sup>2</sup> BETA CAE Systems	<b>Facilitating the industrial implementation of an adaptive Isogeometric Continuum shell element for laminate analysis</b> Camiel Adams <sup>1</sup> , Martin Fagerstrom <sup>1</sup> , Joris J.C. Remmers <sup>2</sup> , A. Vafeidis <sup>3</sup> <sup>1</sup> Chalmers University of Technology, <sup>2</sup> University of Technology Eindhoven, <sup>3</sup> BETA CAE Systems
11:30 - 12:00	<b>BMW - Next Level Engineering: utilizing digitalized know-how through Machine Learning</b> Gagan Saket <sup>1</sup> , Michael Tryfonidis <sup>2</sup> , Dimitrios Siskos <sup>3</sup> <sup>1</sup> BMW Group, <sup>2</sup> BETA CAE Systems, <sup>3</sup> BETA CAE Systems International	<b>Fast flow simulation using combination of MOLDEX3D and ANSA/META</b> Jing Jin, Jeffrey Cao BASF(China) Co., Ltd	<b>Efficient screening of composite structures using the extended 2D FEM approach in META together with a state-of-the-art Failure Initiation criterion</b> Henrik Molker, Renaud Gutkin, Annika Lundberg Volvo Car Corporation
12:00 - 13:00 <b>Featured demonstration   VR Station - Foyer</b> <b>RENAULT Collaborative VR: application in CFD simulation post-processing activities</b> René Gosselin, RENAULT			
12:00 - 12:30	<b>Comprehensive Simulation Run Management: solutions for analysts and model building teams</b> Irene Makropoulou BETA CAE Systems	<b>Unleashing the full potential of ANSA meshing capabilities for RTM analysis</b> Panagiotis Fotopoulos BETA CAE Systems	<b>Fully automated parameterized model creation of ultra-lightweight carbon fiber wrapped components in ANSA</b> Pascoe Scholle LASSO GmbH
12:30 - 13:00	<b>Quality management of CAE data within a SPDM environment</b> Spyridon Tzamtzis, Irene Makropoulou, Menelaos Pappas BETA CAE Systems	<b>Development of an efficient tool for modelling plastic parts using Machine Learning</b> Yoshikazu Nakagawa <sup>1</sup> , Osamu Ito <sup>1</sup> , Prakash Krishnaswamy <sup>2</sup> , Umesh Mallikarjunaiah <sup>2</sup> <sup>1</sup> HONDA R&D Co., Ltd., <sup>2</sup> Xitadel CAE Technologies India Pvt Ltd.	<b>Non-Linear multi-scale modelling of composites using ANSA tools</b> Vangelis Palaiokastitis, Eleftherios Tsvolas BETA CAE Systems
13:00 - 14:00 <b>Lunch   Foyer &amp; Foyer Mezzanine</b>			

## WEDNESDAY MAY 22, 2019 - Morning Sessions

Welcome Coffee - Registration | Foyer &amp; Foyer Mezzanine 08:30 - 09:00

09:00 - 10:00

10:00 - 10:30

Coffee Break &amp; Technical discussions | Foyer &amp; Foyer Mezzanine 10:30 - 11:00

**Session 8D** | Salon Rumford  
Moderator: G. Fotiadis

**Demo Session 8E** |  
Salon Cézanne

**Demo Session 8F** |  
Salon Van Gogh

**Demo Session 8G** |  
Salon Picasso / Dali

**Efficient watertight preparation tools and methods for CFD meshing at Groupe PSA**  
Nikolaos Batsaris<sup>1</sup>, Gael Roy<sup>2</sup>  
<sup>1</sup>BETA CAE Systems, <sup>2</sup>Groupe PSA

**Getting the most from a library with standard parts**  
M. Skordeli

**Pre- & post-processing for Occupant Safety**  
A. Fokilidis, N. Tzolas

**Best practices for automated reporting**  
I. Karypidis

11:00 - 11:30

**Efficient handling of CFD results through compression**  
Aristotelis Iordanidis  
BETA CAE Systems

11:30 - 12:00

**Featured demonstration** | VR Station - Foyer  
**RENAULT Collaborative VR: application in CFD simulation post-processing activities**  
René Gosselin, RENAULT 12:00 - 13:00

**CAE Processes at MAHLE Thermal Management**  
Dr. Albrecht Gehring, Dr. Maria Baiker, Dr. Wolfram Kühnel  
MAHLE

**NVH Console: Revolutionising the processes for NVH development**  
T. Klotsikas

**Pre- & post-processing for Pedestrian Safety**  
A. Fokilidis, A. Perifanis

**User Toolbar Development Kit: a comprehensive solution for developing robust user-toolbars with Python**  
A. Radopoulos

12:00 - 12:30

**Automated report generation of corrosion protection simulations**  
Yannick van Dijk, Elmar Stegmayer, Timo Hopf  
BMW Group

12:30 - 13:00

Lunch | Foyer &amp; Foyer Mezzanine 13:00 - 14:00

## WEDNESDAY MAY 22, 2019 - Afternoon Sessions

	Session 9B   Ballroom B Moderator: S. Kleidarias	Session 9A   Ballroom A Moderator: V. Karatsis	Session 9C   Ballroom C Moderator: K. Kiouptsidis
14:00 - 14:30	<b>Are we ready for huge CAE models?</b> Stavros Kleidarias BETA CAE Systems	<b>Impact of transcatheter valve size on the estimation of paravalvular leakage: an FSI study</b> Laura Iannetti <sup>1</sup> , Giulia Luraghi <sup>2</sup> , Claudio Chiastra <sup>2</sup> , José Félix Rodríguez Matas <sup>2</sup> , Francesco Migliavacca <sup>2</sup> <sup>1</sup> BETA CAE Italy, <sup>2</sup> LaBS, Dep. of Chemistry, Materials and Chemical Engineering, Politecnico di Milano	<b>Applying the VMAP interface standard in ANSA for multi-solver simulation processes</b> Athanasios Fassas, Dr. Georgios Mokios BETA CAE Systems
14:30 - 15:00	<b>VR-Supported Engineering Processes at Daimler</b> Andreas Pau Daimler AG	<b>Gait specific optimization of athletic footwear</b> Alexander Tsouknidas <sup>1</sup> , Katerina Tzolva <sup>2</sup> , Dimitris Drougkas <sup>2</sup> , Evangelos Karatsis <sup>2</sup> , Maria Papagiannaki <sup>3</sup> , Fotini Arabatzi <sup>3</sup> <sup>1</sup> University of Western Macedonia, <sup>2</sup> BETA CAE Systems, <sup>3</sup> Aristotle University of Thessaloniki	<b>Multi-level optimisation for mixed material structural problems using ANSA &amp; META</b> Drew Smith <sup>1</sup> , Nick Kalargeros <sup>2</sup> <sup>1</sup> FAR UK, <sup>2</sup> Jaguar Land Rover
15:00 - 15:30	<b>Subjective assessment of customer-oriented functions by enriching finite element simulation technology with virtual reality features</b> Matthias Steinecker, Daniel Heiserer, Rainer Abeltshauser BMW Group	<b>Fatigue failure analysis of a humeral implant: a Finite Element approach</b> Shivkumar Umadi <sup>1,2</sup> , Vyjayanthi Murthy <sup>2</sup> , Dr. Suresh Nagesh <sup>2</sup> , Dr. Venkateswaran Perumal <sup>3</sup> <sup>1</sup> CORI, <sup>2</sup> PES University, <sup>3</sup> Stryker	<b>How Compare-function can become the secret ingredient for reducing model build-up effort</b> Michael Tryfonidis BETA CAE Systems
15:30 - 16:00	<b>Coffee Break &amp; Technical discussions</b>   Foyer & Foyer Mezzanine		
	<b>Session 10</b>   Ballroom B		
16:00 - 16:15	<b>Closing Remarks - Farewell</b>		



## WEDNESDAY MAY 22, 2019 - Afternoon Sessions

Session 9D   Salon Rumford Moderator: S. Karapantazis	Demo Session 9E   Salon Cézanne	Demo Session 9F   Salon Van Gogh	Demo Session 9G   Salon Picasso / Dali	
<b>Simulating installed antenna performance for automotive radar applications</b> Dr. Christos Lontas, Stefan Frank Fraunhofer FHR	<b>Skinning tools and full vehicle crash optimization with ACP OpDesign</b> T. Sarigiannis	<b>Complete Interior Safety with ANSA &amp; META</b> A. Fokilidis, A. Perifanis, N. Tzolas	<b>CFD Model Build with seamless CAD updates through DM and Compare Tool functionality</b> N. Mitroglou	14:00 - 14:30
<b>Specific Absorption Rate Electromagnetic (EM) Simulations in adult and Child tissues</b> Michel Alhilani <sup>1</sup> , Seyed Reza Atefi <sup>2</sup> , Lilla Zollei <sup>2</sup> , Mohammad Mansouri <sup>2</sup> , Filiz Yetisir <sup>1</sup> , Michael H. Lev <sup>2</sup> , P. Ellen Grant <sup>3</sup> , Giorgio Bonmassar <sup>2</sup> <sup>1</sup> Newborn Medicine, Boston Children's Hospital/ Harvard Medical School, <sup>2</sup> Radiology, Massachusetts General Hospital/ Harvard Medical School, <sup>3</sup> Newborn Medicine, Radiology, Boston Children's Hospital/ Harvard Medical School, Presented by: Milton Pena BETA CAE Nordic				14:30 - 15:00
<b>Using ANSA / META for electromagnetic simulation applications with Cadence's Clarity 3D EM solver</b> Wei Wang, Jian Liu Presented by: Yongjun Liu Cadence Design Systems	<b>Topological repair of optimized model</b> A. Papadopoulos	<b>Data quality management with SPDRM</b> S.Tzamtzis	<b>Working with Kinetics on full vehicle assemblies</b> A. Paraschoudis	15:00 - 15:30
<b>Coffee Break &amp; Technical discussions   Foyer &amp; Foyer Mezzanine</b>				15:30 - 16:00
				16:00 - 16:15



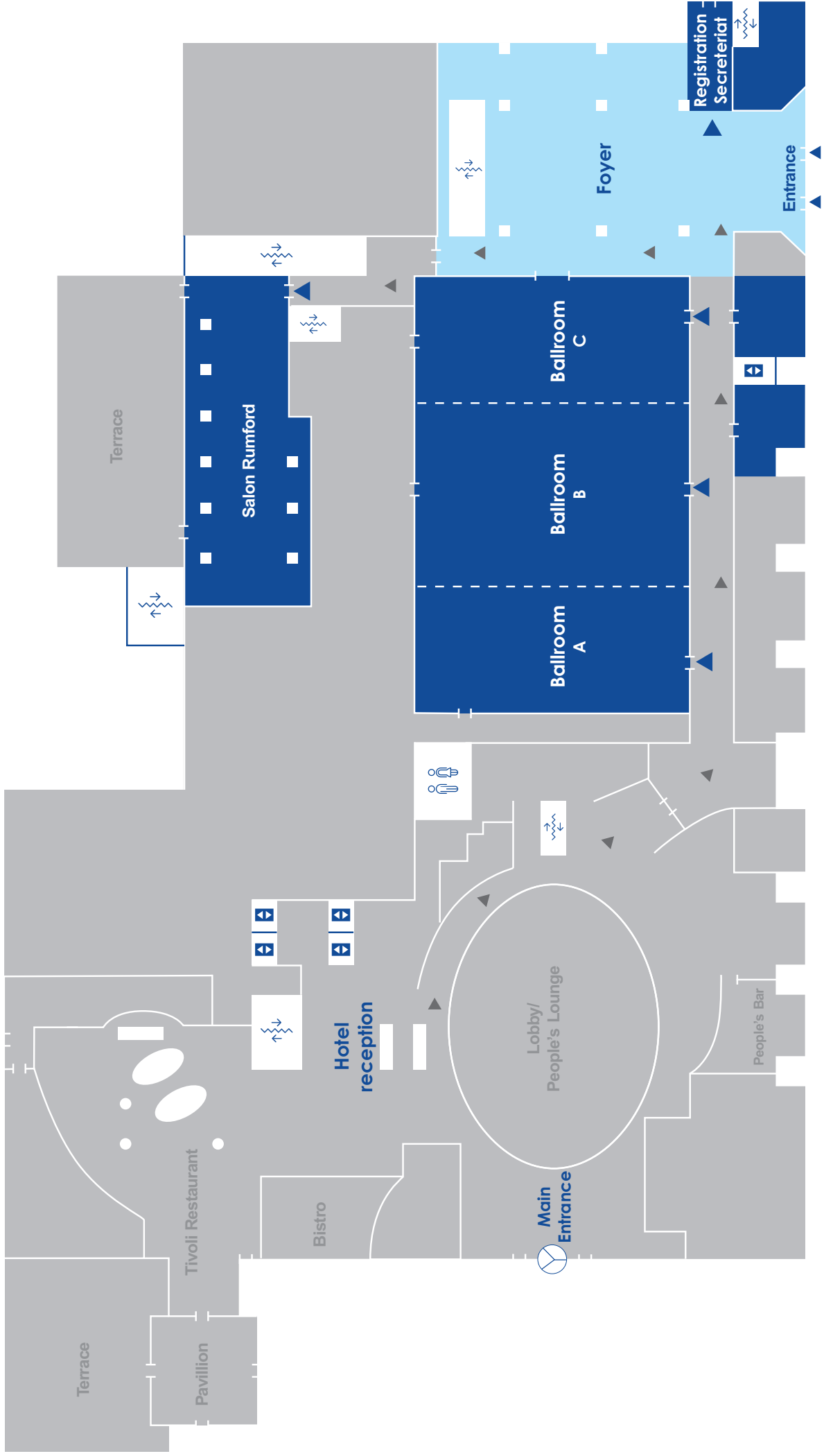


## Venue plan

# FLOOR MAPS KEY

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

## Ground Floor



# FLOOR MAPS KEY

Meeting/Conference Rooms



Restrooms



Foyer/Public Space



Stairs



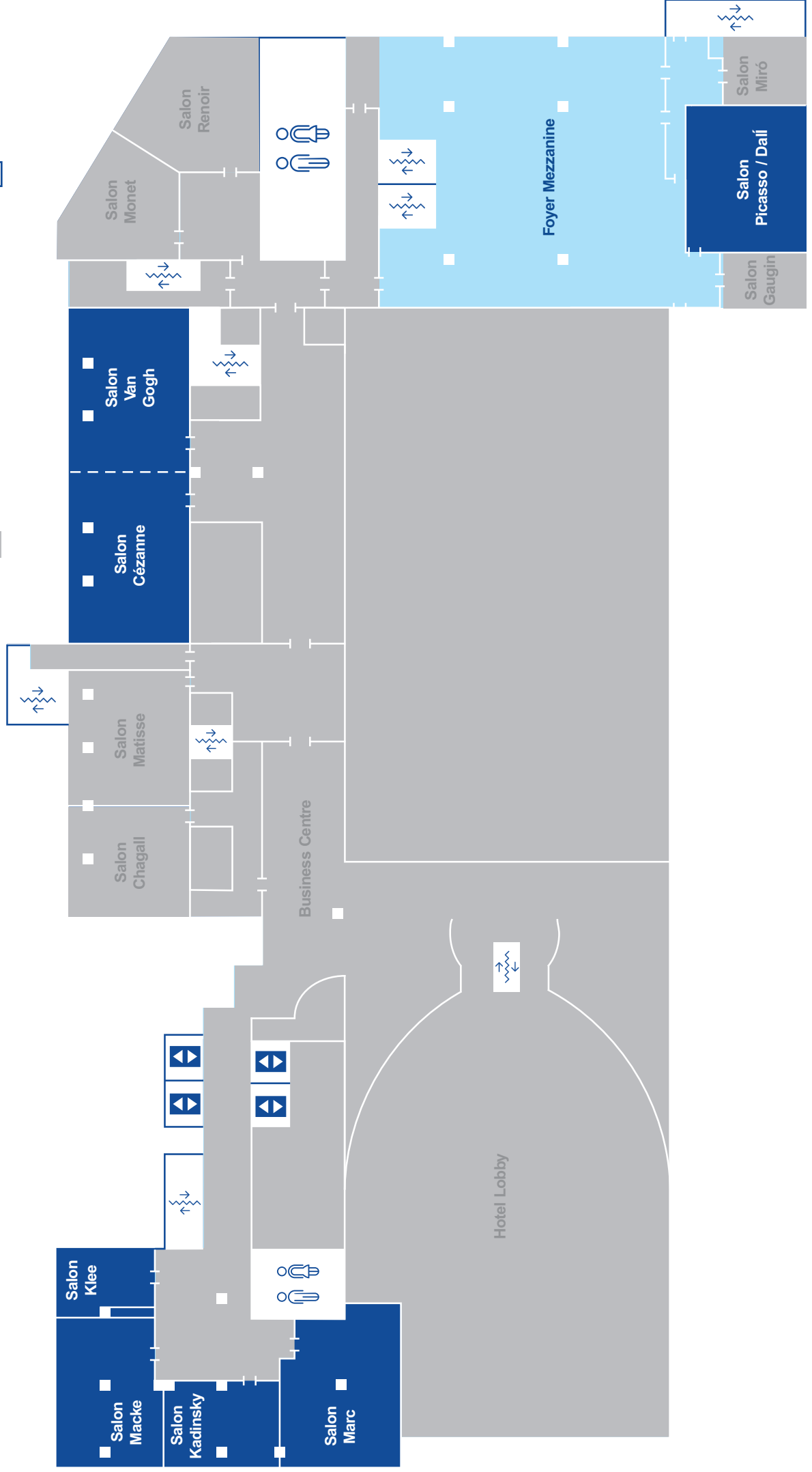
Private



Elevators



## Mezzanine



FLOOR MAPS KEY

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

15th Floor

