

18/03/2025 - Day 1					
timetable	ID	Event	Chairman / Speaker	Co-chair / Company	Duration
8:00 AM - 9:00 AM		Registration			60 min
9:00 AM - 9:15 AM		Welcome & Opening	Dietmar Pilz	ESA	15 min
9:15 AM - 10:00 AM		Keynote ASML	Pieter Koper	ASML	40 min
10:00 AM - 10:30 AM		Update to RatioSim / EGS-CC	Peter van der Plas / Guillaume Gain	ESA	15 min / 15 min
10:30 AM - 10:50 AM		Morning Break			20 min
10:50 AM - 1:00 PM		Session 1 - Digitalisation of Verification & Validation	Alexia Mallet	Joachim Fuchs	90 min
	9	An iterative methodology to combine MBSE and real-time simulations for autonomous systems	Mr. Sébastien Dubé	Samares-engineering	30 min
	32	An MBSE Approach to Requirements Traceability; A Driving Force for System Architecture Decision-Making.	Dr. Nikolena Christofi	ESTEC	30 min
	37	From functional attitude control simulation to requirement verification: Why and how to bridge the gap	Mr. Georgios Galanos	EMTECH	30 min
12:30 PM - 1:00 PM		Exhibitors pitches			30 min
1:00 PM - 2:00 PM		Lunch Break			60 min
2:00 PM - 3:30 PM		Session 2 - Methods for distributed Simulations	Sebastien Devaux	TBA	90 min
	24	The Orchestrator, a distribution mechanism to support large satellite constellations.	Mr. Timo Freitag	TPZ	30 min
	36	Integrating HLA and Space FOM in SIMULUS-NG	Mr. Garratt Weblin	CGI	30 min
	(online) 42	Design and Validation of Satellite Constellations: Advanced Simulation Techniques for Enhanced Operational Efficiency **	Mr. Alexandre Ruiz-Ballesteros	ADS	30 min
3:30 PM - 4:00 PM		Posters Session			30 min
4:00 PM - 4:30 PM		Afternoon Break			30 min
4:30 PM - 6:00 PM		Session 3 - Digital Twins	Quirien Wijnands	Dominique Besson	90 min
	7	Towards the Development of Digital Twins for Spacecraft Operations	Dr. Federico Antonello	ESOC	30 min
	15	Real-time simulator for the ROMEO satellite mission: Hierarchical digital twin approach for the development of a reusable hybrid testbed for satellite verification and operation	Ms. Bahareh Vossoughi	TU Stuttgart	30 min
	10	Extending SIMULUS-based simulators with Digital Twin capabilities	Mr. Maciej Prokopczyk	GMV	30 min
6:00 PM - 8:00 PM		Welcome Reception / SpaceBel Ice breaker			120 min

19/03/2025 - Day 2					
timetable	ID	Event	Chairman / Speaker	Co-chair / Company	Duration
8:00 AM - 9:00 AM		Registration			60 min
9:15 AM - 10:00 AM		Keynote Unreal Engine	Alban Bergeret	EPIC Games Unreal Engine	40 min
10:00 AM - 12:00 AM		Session 4 - EGS-CC and Information Systems	Klara Wildegard	Francois Trifin	120 min
(online) 🌐	41	EGS-CC Pilot - The beginning of the User's Journey towards Copernicus **	Mr. Michael Scheuble	ADS	30 min
(online) 🌐	40	Use of System Engineering DataBase for Electrical Architecture and Harness Design **	Mr. Claude Cazenave	ADS	30 min
	28	ACCEPTO/EGS-CC shadow validation – A prerequisite to operational deployment **	Mr. Francois Verges	ADS	30 min
11:30 AM - 11:45 AM		Morning Break			15 min
	16	Why a data lake is necessary for success in space projects	Mr. Mark Milster	OHB	30 min
12:15 AM - 12:45 PM		Session 5 - Emulation of On-Board Computers (Part 1)	TBA	Sebastien Devaux	90 min
	4	Native execution of cross-compiled embedded software: an alternative approach to processor emulators	Mr. David Riant	TAS-F	30 min
12:45 PM - 2:00 PM		Lunch Break			75 min
2:00 PM - 3:00 PM		Session 5 - Emulation of On-Board Computers (Part 2)	TBA	Sebastien Devaux	60 min
	18	Future and State of the Art of Emulators *	Dr. Mattias Holm	TERMA	30 min
	33	The next generation of ESA SIMULUS Emulator: a new design to improve performance and usability in operational simulators for future missions	Tiago Martinho	TPZ	30 min
3:00 PM - 4:00 PM		Session 6 - Simulation of On-Board Computers	Jorge Lopez Trescastro	TBA	60 min
(online) 🌐	26	AIRBUS New generation Space processor emulator based on Dynamic Binary Translation **	Mr Quentin Rohan	ADS	30 min
	20	BASILES embedded RISC-V System-on-Chip Simulation using a Just-in Time LLVM-based Execution Engine	Mr. Fabien Durand	SPB	30 min
4:00 PM - 4:15 PM		Afternoon Break			15 min
4:15 PM - 5:45 PM		Session 7 - Interactive Session	David Riant	Jorge Lopez Trescastro	90 min
4:15 PM - 4:45 PM		Introduction to Interactive Session : - The 5 Ws of Performance and the H of On-Board Computer simulation	Mr David Riant *	TAS-F	30 min
4:45 PM - 5:15 PM		Brainstrom sessions			30 min
5:15 PM - 5:45 PM		Debrief by moderators			30 min
5:45 PM - 6:30 PM		End of Day Break			45 min
6:30 PM - 9:00 PM		Social Dinner			2h30

20/03/2025 - Day 3					
Timetable	ID	Event	Chairman / Speaker	Co-chair / Company	Duration
8:00 AM - 9:00 AM		Registration			60 min
9:00 AM - 11:00 AM		Session 8 - OBC Simulation in missions	Steve Osborne	Dominique Besson	90 min
	25	SKORM: A fully numerical simulator for IDEFIX Rover incorporating a subset of the OBSW without emulation	Mrs. Coline Brunner	CNES	30 min
	45	A new path for operational high-speed onboard computer simulation for Astroscale's ELSA-M ADR mission	Laurent de Mahieu	Astroscale	30 min
	44	Comparative Analysis of Full Numerical and Hybrid On-Board Computer Simulators in Space Applications	Dr. Lionel Brayeur	SPB	30 min
	31	A journey into the Ariane 6 avionics test facilities	Mr. Sebastien Devaux	Ariane Group	30 min
11:00 AM - 11:30 AM		Morning Break			30 min
11:30 AM - 1:00 PM		Session 9 - SMP and URSA	Peter van der Plas	Sebastien Devaux	90 min
	6	ECSS-SMP as enabler of a new procurement paradigm in Operational Simulators: an account of experience from Galileo	Mr. Nicola Di Nisio	ESA	30 min
	12	URSA, the Uniform Reference Simulator Architecture	Mr. Alberto Ingenito	TPZ	30 min
	8	SMP Level 2: Aiming at Simulator Portability	Dr. Peter Fritzen	TPZ	30 min
1:00 PM - 2:15 PM		Lunch Break			75 min
2:15 PM - 3:45 PM		Session 10 - Simulation and NewSpace	Diogo Vicente	Peter van der Plas	90 min
	29	Spacecraft Systems Modelling with NeXosim: A Modern Rust-Based Simulation Framework	Dr. Serge Barral	Asynchronics	30 min
	30	Be ready to support simulations in operations phase at ESOC for the coming 15 years with SIMULUS	Eng. Daniele Segneri	ESOC	30 min
	35	Hellenic Space Dawn mission case study: A comprehensive simulator stack for risk mitigation and model reuse	Mr. Georgios Galanos	Emtech	30 min
3:45 PM - 4:15 PM		Closing of SESP2025			30 min