

## MDO 2022 Agenda

DAY 1		Technical Topics	Speakers
9h00	Welcome + Coffee		
9h30	Introduction from ONERA		ONERA, P. Bidaud
10h00	Introduction from PSIA2		PSIA2, A. Tanguy
10h30	Key Note 1 (40 min.)	Green Aviation in Europe	<a href="#">V. Selmin (CAJU, CleanSky outcomes overview and perspectives for Clean Aviation)</a>
11h10	Coffee		
11h30	Technical session 1 (3 slots)	Share high-level (selected) roadmaps information Panel from institutes and industries	M. Ferrogali (Airbus, Roadmap for MDO) C. Rey (SAFRAN, Roadmap for MDO) G. Rogé (Dassault Aviation, How is Dassault Aviation preparing eco-friendly business jets for take-off ?)
12h30	Buffet Lunch		
14h00	Technical session 2 (5 slots)	Tour of MDO european related projects: MADELEINE/NEXTAIR , AGILE4.0, CS2 U-HARWARD, IMOTHEP	M. Carini/M. Méheut (ONERA, MADELEINE/NEXTAIR) J. Bussemaker (DLR, AGILE4.0) S. Ricci (PoliMi, U-HARWARD) S. Defoort (ONERA, IMOTHEP)
15h00	Technical session 3 (4 slots)	MDO in applications, focus on specific representative test cases (green aviation)	P.-J. Proesmas (TUD, Multidisciplinary Aircraft Design Optimization with Novel Climate Functions) M. Méheut (ONERA, Overview of MDO applications) M. Abu-Zurayk (DLR, Overview of MDO applications) A. Gazaix (IRT, Overview of MDO applications)
16h20	Coffee		

16h50	Technical session 4 (3 slots)	MDO frameworks and formulations	Y. David (IRT, Bi-level architectures, elements of convergence proof) A. Stück (DLR, Scalable MDAO Framework Infrastructure for FlowSimulator) F. Daoud (Airbus, SoSTrades-WITNESS, the Driving Force of (Industrial) Research and Technology)
17h50	Technical session 5 (2 slots)	End-to-end MDO (MBSE)	Ton van der Laan (GKN - Aerospace, Bringing Manufacturing into the MDO domain using MBSE) P. D. Ciampa (Airbus DS, Towards a model-based End2End Engineering Development)
18h30 - 19h00	Poster session / young researchers		
19h00	Banquet		
21h00	End of the social event		
DAY 2		Technical Topics	Speakers
8h30	Welcome + Coffee		
8h50	Key Note 2 (40 min.)		<a href="#">S. Shahpar (Rolls Royce, Role of MDO @RR)</a>
9h30	Technical session 6 (3 slots)	(MD)O under uncertainty	S. Dubreuil (ONERA, Bayesian Formulations for MDO Applications) T. Ghisu (UniCA, Application of uncertainty quantification to turbomachinery design) P. Congedo (INRIA, Non-Parametric Measure Approximations for Constrained Multi-Objective Optimization under Uncertainty)
10h30	Coffee		
11h00	Technical session 7 (3 slots)	Topology related MDO	G. Allaire (X-Polytechnique, Multiphysics topology optimization and heat exchangers) C. Andreasen (DTU, Coupled shape and topology optimization for aeroelastic design) H. Telib (Optimad, The desperate need for MDO to unchain additive manufacturing: an invitation)

12h00	Lunch + posters		
13h30	Technical session 8 (3 slots)	Data-driven, AI-enabled (MD)O	<p>P. Seshadri (ICL, Bridging the gap between simulations &amp; real-world data)</p> <p>P. Toint (Univ. Namur, First and second order optimization methods without function evaluation)</p> <p>B. Zhou (Univ. Bristol, Towards Data-Driven Multi-Fidelity Propeller Noise Prediction and Minimization)</p>
14h30	Technical session 9 (3 slots)	Multi-Level/Multi-Fidelity/Multi-Objective MDO	<p>T. Verstraete (VKI, "The importance of gradient accuracy in aerodynamic shape optimization")</p> <p>N. Fabiane (ONERA, Surrogate-based RBDO for Aeroelastic Applications)</p> <p>J. Brezillon (Airbus, Multi-fidelity aeroelastic optimization)</p>
15h30	Coffee		
16h00	Panel discussions	<p>Discussions about future roadmaps to go towards climate-neutral aircraft configuration (Open)</p> <p>What are the priorities and why (based on the national and international roadmaps)</p>	<p>V. Selmin, Clean Aviation JU,</p> <p>F. Blanc, AIRBUS,</p> <p>G. Rogé, DASSAULT AVIATION,</p> <p>S. Shapar, Rolls Royce,</p> <p>P. Beaumier, ONERA,</p> <p>M. Fisher, DLR,</p> <p>D. Descheemaeker, IRT</p>
17h00	Conclusions		
17h30	End		