

DAY 1		Technical Topics	Speakers
9h00	Welcome + Coffee		
9h30	Introduction from ISAE/ONERA		
10h00	Key Note 1 (40 min.)		Benjamin Phillips, NASA, "Transforming MDAO: How We Can Bridge the Gap Between Academic Development and Industry Adoption"
10h40	Coffee		
11h00	Technical session 1 (4 slots of 15+5 mn each)	MDO & MBSE	Nicolas Sarda, Florian Blanc, Kyle Hall, Bernd Feldvoss, Gaspard Berthelin (ADS & Airbus Commercial Aircraft, MDAO approached from an SE mindset) Anne Gazaix (IRT, MBSE-MDAO wing-pylon-nacelle MDO application) Anne Liza Bruggeman (Fokker and TUD, Dynamic MDAO workflows – An industrial perspective) Sparsh Garag (DLR, Dynamic MDO)
12h20	Buffet Lunch		
14h00	Technical session 2 (5 slots of 15+5 mn each)	Gradient based MDO	Kyriakos Giannakoglou (NTUA, Enablers for (Unsteady) Adjoint in Single- and Multi-Disciplinary Optimization) M. A. Chemak (SAFRAN, Adjoint-based optimization of an USF fan blade) Cyril Dosne (ONERA/DAAA, Tackling highly integrated engine design through adjoint body-force optimizations) Stefan Görtz (DLR, High-fidelity Gradient-based MDO Capabilities at DLR - recent developments) Ögmundur Petersson & Andres Mateo Gabin (ADS, title TBD)
15h40	Coffee		
16h00	Technical session 3 (3 slots of 15+5 mn each)	AI-enabled MDO	Rhea Liem (Imperial College, DeepGeo: Expanding and accelerating aerodynamic shape optimization with machine learning) Francesco Montomoli/Anirudh Rao(Imperial College, Machine Learning for Aircraft Engines Simulations) Melike Nikbay (ITU, UQ/Robust MDO assisted by Multifidelity Surrogate Modeling and ML/AI)
16h00	Technical session 4 (5 slots) - Short presentation 15mn	Tour of MDO Projects (COLOSSUS, UPWING, ACAP, ODE4HERA, MPHYS, NEXTAIR)	COLOSSUS (Prajwal Prakasha & Thierry Lefebvre) ODE4HERA (Sparsh Garg) ACAP UPWING US project (MPHYS) NEXTAIR
17h15	Benchmark presentation 5 mn	DLR F25 benchmark	new MDO grand challenge problem
17h15	Poster session / young researchers		
18h00			
19h00	Cocktail event @ISAE-SUAPERO		
21h00	End of the social event		

DAY 2		Technical Topics	Speakers
8h30	Welcome + Coffee		
8h50	Key Note 2 (40 min.)		Laura Mainini, Imperial College, "Multidisciplinary design optimization for sustainable futures in aeronautics"
9h30	Technical session 5 (3 slots of 15+5 mn each)	MDO for OAD (part I)	ONERA, FastOAD (ACAP-UPWING and Bayesian Optim) Florent Lutz (ISAE-SUPAERO, Florent Lutz for Regional electric A/C design via FastOAD) Eliot Aretskin-hariton & Jason Kirk (NASA, AVIARY tool and its applications)
10h30	Coffee		
11h00	Technical session 6 (3 slots of 15+5 mn each)	Multi-level/Multi-fidelity/Multi-Objective MDO (part I)	Andrea Da Ronch & Declan Clifford (Univ. of Southampton, Design of an aircraft with hinged wingtips) Felipe Odaguil (Embraer, title TBD) Sven Geisbauer(DLR, Collaborative MDO applications for future aircraft at DLR)
12h00	Lunch + poster		
13h30	Technical session 7 (3 slots of 15+5 mn each)	MDO frameworks & interoperability	François Gallard (IRT, GEMSEO Framework) Rob Falk (NASA, Update on OpenMDAO & Dymos Development from the Dev team) Michael Warner & John T. Hwang (UCSD, Graph-based modeling for large-scale multidisciplinary design optimization) DLR & IRT: A gradient-enabled MDAO plugin API for FlowSimulator supporting state-of-the-art MDAO frameworks (GEMSeo and OpenMDAO with FlowSimulator)
14h30	Technical session 8 (2 slots of 15+5 mn each)	MDO frameworks & interoperability	Christopher Lupp (AFRL, Philote)

15h10	Coffee		
15h40	Technical session 9 (3 slots of 15+5mn each)	MDO under uncertainty	<p>Gregory Dergham (SAFRAN, Assessment of robust optimization strategies for the design of a propeller)</p> <p>Benjamin Philipps (NASA, MDO applications with Uncertainty)</p> <p>T. Ghisu (From in-service degradation analysis to robust optimization of turbomachinery components, UNICA)</p>
16h40			
19h30	Dinner optionnal - boat		
DAY 3			
Technical Topics		Speakers	
8h30	Welcome + Coffee		
8h50	Technical session 10 (3 slots of 15+5 mn each)	MDO for OAD (part II)	<p>Rauno Cavallero (Univ Carlos III de Madrid, Multidisciplinary Optimization of Strut-BracedWings with Distributed Electric Propulsion for Local Air Quality and Noise Improvements)</p> <p>Maria D'Amaro, (University of Naples Federico II, GEMSEO MDO applications to UAV MALE)</p> <p>Gökçin Cinar (Univ of Michigan, AACES aircraft modelling work)</p>
9h50	Coffee		
10h10	Technical session 11 (3 slots of 15+5 mn each)	Multi-level/Multi-fidelity/Multi-Objective MDO (part II)	<p>Lisa Prestch (MTU, Bayesian optimization for multi-stage aero-structural turbomachinery blade design)</p> <p>Ines Da Costa Cardoso (ICA, ISAE-SUPAERO, Dedicated enrichment strategy for gradient-based MDO using disciplinary surrogates)</p> <p>Timos Kipouros (Cranfield University, Probabilistic design space exploration and optimisation using Bayesian Networks)</p>
11h10	Technical session 12 (3 slots of 15+5 mn each)	MDO for Sustainability (LCA)	<p>Dajung KIM (ENAC, How can the aviation environmental impact be evaluated in the airplane conceptual design and optimization?)</p> <p>Nicolas Gourdain (ISAE-SUPAERO, title TBD)</p> <p>Thierry Chevalier (CAPGEMINI, Expanding sustainability modeling in transition scenarios)</p>
12h10	Lunch + poster		
14h00	Nextair Dissemination workshop		
16h00	Coffee break		
17h00	Nextair Dissemination workshop		see dedicated page
18h	End		