
AGENDA

Wings of Change: Navigating the Future of Sustainable Aerostructures

ATLAS Cluster Workshop

Date and time: 17/09/2026; 09:00-16:30

Location/platform: Aragon Institute of Technology (ITA), C. María de Luna 7, 50018 Zaragoza, Spain / MS Teams

Organized by: ATLAS Cluster

How will the next generation of aircraft become lighter, smarter, and more sustainable? Who is shaping the future of advanced composite aerostructures, and what breakthroughs are needed to bring tomorrow's aviation technologies from the laboratory to the runway?

Wings of Change: Navigating the Future of Sustainable Aerostructures is the flagship event of the *ATLAS Cluster*, bringing together five Horizon Europe projects ([CompSTLar](#), [TOSCA](#), [PLEIADES](#), [pAlramid](#) and [HyperMorpH](#)) to showcase the innovations driving the transformation of aerospace composites. Spanning the entire value chain, from novel recyclable materials and automated manufacturing to digital twins, artificial intelligence, virtual certification, and next-generation aircraft concepts, the workshop offers participants a unique opportunity to explore how these complementary initiatives are collectively redefining the future of aviation.

Designed for a broad community of stakeholders, the event aims to foster cross-project collaboration, encourage knowledge exchange, and strengthen connections between research and industry.

Through a series of expert presentations and interactive discussions, participants will embark on a thematic journey across the key technological challenges and opportunities facing the sector. The workshop will highlight emerging solutions, identify future research priorities, and demonstrate how collaborative European innovation can accelerate the transition towards more sustainable, circular, digitally enabled, and competitive aerospace systems.

Workshop agenda:

09:00 – 09:30 <i>Networking at the Gate</i>			
09:30 – 10:00 <i>Take Off: Setting the Course for Sustainable Aerostructures</i>			
Time	Title	Presenter	Project
09:30 – 10:00	The ATLAS Cluster's Shared Vision for the Future of Composite Aerostructures	Anna Bréchine, Project Manager, IoT Lab (Switzerland)	CompSTLar
10:00 – 11:00 <i>Session 1: Cruising Towards Circularity: Future of Composite Materials</i>			
Time	Title	Presenter	Project
10:00 – 10:10	Rethinking Composite Matrices: Can Covalent Adaptable Networks Deliver Performance and Circularity?	Nerea Markaide, Polymers & Composites Unit, CIDETEC (Spain)	TOSCA
10:10 – 10:20	Can Conductive Bio-based Composites Achieve Both Performance and Sustainability?	Belén Redondo, Researcher, Gaiker-IK4 (Spain)	pAlramid
10:20 – 10:30	How Many Lives Can a Composite Have? Exploring Multicycle Recycling of Vitrimers	Rafał Kozera, R&D Senior Specialist, NOMA Resins (Poland)	TOSCA
10:30 – 10:40	Closing the Loop: Creating New Value from Composite Laminates through Circular Recovery	Marc Wilms, Research Associate, Fraunhofer IPT (Germany)	CompSTLar
10:40 – 11:00	Q&A and Panel discussion		
11:00 – 11:15 <i>Pit-stop Refuel (coffee break)</i>			
11:15 – 12:15 <i>Session 2: Autopilot Assembly: Are Automated Manufacturing Processes Ready for Takeoff?</i>			
Time	Title	Presenter	Project
11:15 – 11:25	Tailored by Design: How Can Automated Fibre Placement Unlock the Next Generation of Composite Parts?	Pablo Romero Rodríguez, R&D Team Leader - Advanced Manufacturing of Composites, AIMEN	CompSTLar

		Technology Centre (Spain)	
11:25 - 11:35	Seeing Every Defect: Can Machine Vision Deliver Quality Assurance Throughout Composite Manufacturing?	Christian Eitzinger, Head of Machine Vision Dept., Profactor GmbH (Austria)	TOSCA
11:35 - 11:45	Lighting the Way: How Can Photonic Technologies Enable Smarter Composite Manufacturing?	Harry Zervos, Senior Researcher, ICCS-NTUA (Greece)	PLEIADES
11:45 - 11:55	3D Printing to New Heights: Can Continuous Carbon Fibre Additive Manufacturing Meet Aerospace Demands?	Daniel Gomes, Researcher, INEGI (Portugal)	pAramid
11:55 - 12:15	Q&A and Panel discussion		
12:15 - 13:30	<i>In-Flight Meal Service (lunch break)</i>		
13:30 - 14:30	<i>Session 3: Navigating the Digital Sky: How Are Digital Twins and AI Shaping Aerospace Certification?</i>		
Time	Title	Presenter	Project
13:30 - 13:40	From Data to Decisions: How Can Digital Twins and Physics-Informed Artificial Intelligence Improve Composite Structures?	Carlos González, Researcher, IMDEA Materials Institute (Spain)	CompSTLar
13:40 - 13:50	Breaking Data Silos: How Can a Digital Thread Connect the Composite Value Chain?	Sabrina Verardi, R&I Project Manager, Engineering Ingegneria Informatica (Italy)	CompSTLar
13:50 - 14:00	Predict Before You Repair: How Can Data-Driven Maintenance Extend the Life of Composite Structures?	Andrea Calvo-Echenique, R&D Engineer, ITA - Aragon Institute of Technology (Spain)	TOSCA
14:00 - 14:10	From Virtual Testing to Real-World Decisions: Can Multiscale Reliability Models Accelerate Certification?	Julen Manterola, Research Engineer, IKERLAN (Spain)	pAramid
14:10 - 14:30	Q&A and Panel discussion		
14:30 - 14:45	<i>Refreshment Stop (coffee break)</i>		

14:45 – 15:15 <i>Session 4: Landing Innovations: Scaling Impact Across Europe</i>			
Time	Title	Presenter	Project
14:45 – 15:15	Where to Next? Charting the Roadmap for Future Aerospace Innovations	Cinzia Rubattino, R&I Project Manager, Engineering Ingegneria Informatica (Italy) Cláudio Santos, Coordinator of Technology & Innovation Management, INEGI (Portugal)	CompSTLar, HyperMorpH
15:15 – 15:45	Final Approach: Panel Discussion – Integrating Innovations for Europe’s Future Aircraft	Stania Druskova and Simona Baldovska, Project Managers, PEDAL Consulting (Slovakia)	HyperMorpH
15:45 – 16:30 <i>Connecting Flight: Networking Session</i>			