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1 DAY
TECHNICAL AGENDA

40+
EXPERT SPEAKERS

60+
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400+
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WELCOME TO THE **EVTOL SHOW EUROPE 2026**

EUROPE'S PREMIER TECHNICAL GATHERING OF eVTOL
INDUSTRY LEADERS, INNOVATORS AND ENGINEERS

JOIN 400+ eVTOL PROFESSIONALS

The eVTOL SHOW EUROPE equips manufacturers and their suppliers with the cutting-edge tools, technologies, and connections needed to accelerate commercial roll-out. Explore advanced materials, innovative systems, and state-of-the-art processes that provide powerful manufacturing advantages and operational insights. Gain a competitive edge and ensure your operations thrive in an evolving, digitally intelligent landscape. Join us to discover the future of eVTOL manufacturing and drive the industry forward.

40+ INDUSTRY EXPERT SPEAKERS

Do you have ground-breaking insights and innovative solutions in the eVTOL industry? We invite you to join our line-up of 40+ expert speakers at this year's eVTOL Smart Manufacturing Europe Summit. Submit your presentation and become a part of our thought leadership community, where you can share your knowledge, engage with industry leaders, and drive the future of aerospace manufacturing.

Don't miss this opportunity to showcase your expertise and contribute to the conversation on the latest advancements and trends in eVTOL technology. Submit your presentation today and help shape the future of the industry!

1-DAY, TECHNICAL AGENDA

The global eVTOL manufacturing landscape is undergoing rapid transformation, and the industry needs ingenuity, collaboration and innovation to scale-up and roll-out. With an interactive technology showcase, thought-provoking presentations, and strategic networking sessions, the eVTOL SHOW EUROPE empowers manufacturing leaders and their suppliers to navigate this evolution and address shared challenges to drive long-term growth.

60+ EXHIBITOR SHOWCASE

Seize the opportunity to sponsor and exhibit at the eVTOL SHOW EUROPE 2026 and position your company at the forefront of the aerospace industry. Our Technology Showcase offers unparalleled visibility and access to key decision-makers, industry leaders, and potential clients.

By sponsoring or exhibiting, you can demonstrate your innovative solutions, connect with top-tier professionals, and drive your business forward. Highlight your cutting-edge technologies and establish your brand as a leader in the rapidly evolving eVTOL sector.

SHAPING THE FUTURE OF THE EVTOL LANDSCAPE

Where eVTOL Gets Designed, Certified, and Built

Join North America's premier assembly of eVTOL designers, engineers, and senior executives as we concentrate on scaling up eVTOL production at the continent's largest technical conference and exhibition for eVTOL professionals. This distinguished event will feature a series of in-depth case study presentations, interactive panel discussions, and exclusive networking opportunities, providing a unique platform for industry experts to collaborate and innovate.



CONFERENCE TOPICS

eVTOL Market And Value Chain

The eVTOL industry is rapidly developing, and understanding its value chain and key use cases is crucial for stakeholders. This topic explores the entire value chain of eVTOLs, from design and manufacturing to deployment and operation. It includes an in-depth analysis of market trends, key developments, and the challenges of building and running the necessary ground infrastructure, including overcoming the "Not In My Backyard" syndrome.

Automation And Digital Manufacturing

Automation and digital processes are transforming eVTOL manufacturing. This topic focuses on the need for advanced, automated, and digital manufacturing processes, managing the extensive use of automation, and adopting the latest tools and processes in production. It also examines the influence of automotive industry practices and biomimicry in cabin design.

Environmental And Operational Sustainability

Achieving environmental sustainability is a key goal for the eVTOL sector. This topic explores how to design eVTOLs to meet environmental sustainability requirements, noise and vibration mitigation strategies, and learning from experiences in the EV and grid storage spaces. It also addresses managing lifecycle challenges in battery technology and ensuring sustainable operations.

Airspace And Traffic Management

Effective airspace management is essential for the successful integration of eVTOLs into urban environments. This topic addresses how eVTOLs will be handled in the airspace, including the creation of a new low altitude air traffic management system. It also explores the incorporation of multiprotocol label switching for faster connections and the potential necessity of IFR for short flights, along with the challenges of establishing rooftop vertiports.

Advanced Propulsion Systems

Innovation in propulsion systems is critical for the performance and efficiency of eVTOLs. This topic delves into the latest advancements in electric propulsion technologies, hybrid systems, and new materials that enhance propulsion efficiency. It also examines the challenges of thermal management and noise reduction in propulsion systems.

Certification And Safety

Navigating the certification process and ensuring safety is paramount in the eVTOL industry. This topic covers the certification process and handling of safety concerns, including coordination with the FAA and EASA, the use of performance-based requirements, and overcoming differences in certification standards. It also examines compliance with RTCA DO-311, SAE AIR6897, and FAA AC 20-184, as well as approaches to managing thermal runaway risks in lithium-based chemistries.

Infrastructure Development And Urban Integration

The successful deployment of eVTOLs requires extensive infrastructure planning and development. This topic explores the challenges and solutions related to urban integration, including the development of vertiports, ground infrastructure, and charging stations. It also covers regulatory and zoning issues, and strategies for ensuring community acceptance.

Pilot Training And Simulation

Training pilots for eVTOL operations is essential for safety and efficiency. This topic covers simulation for eVTOL pilot training, including the use of full-motion flight simulators and mixed-reality simulators. It emphasizes the importance of advanced training tools and techniques to prepare pilots for the unique challenges of operating eVTOL aircraft.

Autonomous Flight And Control Systems

Autonomous flight technology is a game-changer for the eVTOL industry. This topic covers the development and implementation of autonomous flight and control systems, including AI and machine learning applications, sensor technologies, and redundancy systems to ensure safety. It also discusses the regulatory and ethical considerations of autonomous flight.

Design And Production Systems

Designing and finalizing prototypes while building robust production systems is a critical phase for eVTOL manufacturers. This topic delves into finalizing and freezing designs to build conforming prototypes and focuses on building out efficient production systems. It also covers advanced modeling and simulation, overcoming manufacturing and supply chain challenges, and ensuring structural integrity with composites and thermoplastic resin systems.

Data Management And Cybersecurity

Managing data and ensuring cybersecurity are major concerns for the eVTOL industry. This topic covers data management strategies, cybersecurity protocols, and the importance of protecting sensitive information. It also explores the role of blockchain and other advanced technologies in enhancing data security.

Interior Design, Materials, And Haptics In eVTOLs

The interior design of eVTOLs plays a crucial role in passenger comfort, safety, and overall experience. As the industry evolves, there is a growing focus on utilizing advanced materials and haptic technologies to create a sophisticated and immersive environment within the cabin. This topic explores the latest trends and innovations in eVTOL interior design, the use of cutting-edge materials, and the integration of haptic feedback systems to enhance the passenger experience.

Regulatory Landscape And Policy Development

Navigating the regulatory landscape is a significant challenge for the eVTOL industry. This topic covers the current state of regulations, the role of international aviation authorities, and the development of policies that facilitate the safe and efficient operation of eVTOLs. It also explores the impact of emerging regulations on the industry and strategies for compliance.

Battery Technology And Energy Management

Battery technology is a cornerstone of eVTOL performance and efficiency. This topic addresses managing battery recharging times, increasing range, and shortening turnaround times. It explores the challenges of using off-the-shelf EV batteries, developing batteries tailored to eVTOL needs, and overcoming issues related to cycle life, energy density, and feasibility. Additionally, it includes discussions on solid-state batteries, sodium-ion batteries, hydrogen fuel cells, and managing temperature parameters.



08:00

Chair's Opening Remarks

08:20



VOLOCOPTER

Volocopter's Roadmap to Certification: From Flight Trials to Type Certificate

David Bausek, CTO, Volocopter

- Sequencing DOA/POA, conformity, and compliance artifacts on a clear path to Type Certificate
- Applying SC-VTOL and evolving MOCs across handling qualities, lightning/HIRF, crashworthiness, and propulsion batteries
- Converting flight-test and city-trial results into cert-grade evidence and risk retirement
- Building the propulsion/energy safety case: TR detection & containment, HV protection, EMC/EMI robustness
- Production readiness as a cert lever: supplier qualification, serial build, and inspection regimes
- Operational integration workstreams: U-space/UTM procedures, vertiport interfaces, and maintainability by design.

08:40

EHANG

From Certification to Commercialization: Global Lessons from China's First Type-Certified eVTOL

Zhang Hong, Vice President, EHANG

The certification of EHANG's EH216-S in China marked a historic milestone for the eVTOL industry, moving from prototypes to authorized commercial operations. This session explores the technical, regulatory, and operational lessons behind this achievement, highlighting differences between CAAC, FAA, and EASA pathways, and their implications for global harmonization. It will also address commercial deployment, safety cases, infrastructure integration, and scaling challenges, offering insights for how U.S. and European stakeholders can accelerate safe certification while balancing innovation, public acceptance, and airspace integration, ultimately shaping a coordinated global roadmap for advanced air mobility.

09:00



Cold Front Ops: BETA's European Winter Demonstrations

Patrick Buckles, Head of Sales, BETA Technologies

BETA's European and Nordic campaign provides a real-world testbed for early eVTOL operations in cross-border airspace, harsh winter conditions, and renewable-heavy grids. This session distills demo results into guidance on EASA-aligned route validation, cold-weather and icing mitigation, battery and charging strategies under constrained grid conditions, cert-grade data collection for SC-VTOL and Part 23 pathways, U-space corridor trials with local ANSPs, and winter-ready MRO concepts—offering a detailed blueprint for standing up repeatable, certifiable missions in Northern Europe.

09:20

Full-Scale Vertiport Testbeds: From Concepts to Cert-Grade Evidence

A new generation of full-scale vertiport testbeds is being developed across Europe to bridge the gap between concept design and certifiable infrastructure. These modular, reconfigurable sites enable validation of layout archetypes, operational procedures, and safety systems under realistic conditions—supporting regulators, OEMs, and operators in de-risking commercial Advanced Air Mobility (AAM) deployment. By functioning as open “real laboratories,” these facilities allow collaborative trials of ground operations, U-space/UTM integration, and energy and passenger systems at representative scale.

- Define engineering requirements and layout archetypes for urban vs. airport vertiports, including pads, stands, taxi/ground flows, and passenger interfaces.
- Demonstrate full-scale, modular vertiport prototypes reconfigurable to test throughput, turnaround, and emergency scenarios.
- Integrate U-space/UTM services and a vertidrome management layer for scheduling, separation, contingency handling, and data exchange.
- Validate safety cases and ops procedures (FOD, fire safety, HV charging interlocks, de/anti-icing readiness, rescue & evacuation) under realistic constraints.
- Quantify performance through operational KPIs (capacity/LoS, taxi/charge times, grid demand, noise footprints, availability) and establish acceptance criteria.
- Develop certification-support methods and evidence: trace requirements ↔ trials ↔ auditable documentation for authorities and operators.
- Coordinate structured stakeholder engagement (industry, cities, airports, utilities) to align standards, interfaces, and investment timing.

09:40



Mission-Driven Thermal Modelling for eVTOL

Christina Matheis, Fraunhofer Institut IBP

This talk presents a cert-ready thermal modelling framework that links ID system networks with targeted 3D CFD, ties heat loads to mission phases, and closes the loop with rig and chamber data. It covers propulsion, battery, ECS, de/anti-icing, and cabin comfort across the full thermal stack, with methods for data-driven parameterization, uncertainty management, and correlation. Reduced-order models enable fast design trade studies and HIL, while operational guidance addresses charge/pre-conditioning windows, turnaround times, and energy-thermal planning at vertiports—delivering a practical roadmap for credible, certifiable thermal management in eVTOL systems.

10:00



Fastening the Challenges of Lightweight Electrification: Aluminum & Copper Solutions for eVTOL

Franziska Götz, ARNOLD Umformtechnik (Würth Group)

Lightweight eVTOL airframes and high-current power systems demand new approaches to fastening and electrical joints. This session translates 125+ years of fastening expertise into guidance for multi-material Al-Cu-CFRP architectures, covering optimal fastener selection, HV busbar and termination design, galvanic mitigation, and durability validation from coupon to full-article testing. It also addresses automation, in-line process control, and AS9100-class quality frameworks to enable reliable, certifiable joints at aerospace production rates in Europe.

10:20 | Engineering Espresso Break

11:00



Engineering Hybrid eVTOLs With Sustainable Aviation Fuel (SAF) For Long-Range Flight

Clem Newton-Brown, CEO, Skyportz

Distributed-electric rotors don't eliminate downwash risks—high disk loading, close rotor spacing, and urban canyons can generate hazardous flows impacting pedestrians, glazing, debris, and air quality. This session translates rotorcraft and jet-blast science into urban eVTOL design and ops rules, covering hazard quantification, CFD/wind-tunnel modelling, and full-scale pad testing. It highlights mitigation levers in aircraft configuration, pad/site design, and operating procedures, and outlines how to build auditable Downwash Safety Cases that integrate OEM data, vertiport standards, and building codes into certifiable requirements for safe urban deployment.

11:20



A Hybrid-Electric Playbook for Long-Range VTOL

TBA, Meridian Flight Systems

Meridian is advancing two linked programmes: Corra, a large hybrid-electric tiltrotor UAV targeting >2,500 km range with 350 kg payload in all-weather, controlled-airspace operations; and HERMES, a scalable, fuel-flexible hybrid powertrain (100–300+ kW) designed for ~15% lower SFC and ~20% emissions reduction. This session details their parallel development and certification strategy under EASA CS-23/CS-E, the Corra-60 demonstrator for aero, controls, and hybrid validation, and a sovereign UK-EU supply chain approach—highlighting technical synergies, fuel-flexible design, and industrialisation for dual-use civil and defence applications.

11:40



Liquid Miles: Designing H₂-Powered Logistics UAVs

Emilia Torres, Head of Product Management, NEX Aero GmbH

Hydrogen propulsion offers higher specific energy for heavy-lift, long-range UAV logistics, but demands rigorous engineering. This session examines fuel-cell vs H₂-ICE architectures, hybridization strategies, and storage trade-offs between 350/700 bar and LH₂, alongside thermal and water management, EMI/EMC challenges, and fault-tolerant HV integration. It will outline mission-level payload-range trades,

safety validation for leaks and refueling, and infrastructure concepts from mobile refuelers to depot electrolyzers—mapping the certification and supply chain steps needed to scale hydrogen-powered cargo UAVs under CS-LURS/SC-UAS.

12:00

VERTICAL

Flightpath 2030 in Practice: Vertical's VX4—From Transition Flight to Scaled Manufacturing

TBA, Vertical Aerospace (VX4 Program & Manufacturing Leadership)

Vertical Aerospace has detailed a data-driven roadmap to VX4 certification and production, with CAA/EASA conformity evidence tied to transition-flight milestones, a 2028 type certificate target, and hybrid-electric flight testing from 2026. Its UK footprint combines 25+ units/year aircraft assembly at Cotswold Airport with a new Avonmouth battery facility tripling output, de-risking integration and scaling toward a 225+ units/year run-rate by Q4 2030. This session unpacks the certification path, hybrid variant roadmap, industrialization metrics, and \$700M spend-to-TC, translating financial commitments into engineering readiness, QA, and supply-chain alignment.

12:20



Megawatts, Hybrids & Turnarounds: What Heart's ES-30 Teaches eVTOL

TBA, Heart Aerospace (ES-30 Program & Infrastructure Integration)

Heart's ES-30, a 30-seat hybrid-electric regional aircraft targeting 2029 certification, offers key lessons for eVTOL operators from its X1 demonstrator and airport ground-ops trials. With ~1 MW charging and 30-minute turnaround validated, the program provides data on power planning, safety interlocks, and passenger flows, as well as insights into hybrid architectures for reserve policies, dispatch reliability, and winter ops. This session traces certification pathways, EMC/lightning evidence, and infrastructure documentation while highlighting Heart's role in Charlin and MCS standardization—showing how airport-driven megawatt charging can directly inform vertiport design and operations.

12:40



From Ground Operations to Certification: Lessons in Delivering Safe and Scalable BVLOS eVTOL Cargo Missions

Chen Rosen, CTO, AIR

As cargo eVTOL operations progress from prototypes to real missions, success hinges not just on aircraft design but on BVLOS protocols, trained ground crews, and innovative certification strategies. This session draws on case studies from early delivery programs to highlight operational lessons, human-factor integration, and the role of Light Sport Aircraft pathways as an entry point to certification. It will connect safety, infrastructure, and regulatory frameworks into a roadmap for scaling BVLOS cargo missions, offering operators practical insights for accelerating deployment.

13:00 | Engines Off, Conversations On

14:00



Getting Ready for Take-Off: The European AAM Framework

TBA, The European Union Aviation Safety Agency (EASA)

Europe's AAM rulebook is solidifying, with SC-VTOL, EU Regs 945/2019 and 947/2019, and the Open/Specific/Certified categories shaping certification and ops requirements. This session translates those frameworks into practical actions for OEMs, operators, airports, and cities—covering Basic vs Enhanced safety objectives, pathways to type/airworthiness/operator approval, and how to plan compliance amid pending amendments. It also unpacks FAA-EASA alignment steps and their impact on cross-border services, grounding the discussion in current European readiness signals from trials and infrastructure planning, and linking regulatory progress to real market and route-planning opportunities.

14:20



NASA's STRIVES-5 Acoustic Campaign with Joby Aviation

Lars Winberg, Aerospace & Defense & Automotive, GRAS

Building the eVTOL noise playbook — Inside NASA's STRIVES-5 Campaign with a 58-Mic GRAS Ground Arra: the first publicly released, comprehensive eVTOL noise dataset, captured using a 58-channel ground array of GRAS 67AX pressure microphones powered by NASA Langley's WAMS2 system. The results (e.g., 45.2 dBA at 1,640 ft and <65 dBA at 330 ft during T/O & landing) are now shaping community-noise models, certification methods, and vertiport procedures.

- Specify a ground-array for eVTOL testing (channel count, spacing, board design, calibration, sync) using STRIVES-5 as a reference.
- Design low-noise procedures (transition timing, climb/approach angles, prop-rpm targets) informed by acoustic hemispheres and ground contours.
- Translate decibel figures and spectral content into community-acceptance narratives for regulators and municipalities.

14:40



Munich Airport's AAM Readiness

Oliver Schultes, Project Manager Corporate Development, Munich Airport International

Adrian Voß, Airport Consulting, Munich Airport International

Dipl.-Ing. M.Sc. REM Olaf Bünck, Strategic Airport Development, Munich Airport International

Munich Airport and MAI are moving AAM from theory to practice with vertiport designs for both airports and cities. This session details slot-neutral airport layouts, modular rooftop/parking-deck concepts, and MAI's traffic-to-power sizing method for megawatt-class charging demand. It will cover SOPs for safe, high-throughput operations, U-space/ATM integration, and use of digital twins to validate flows, noise, grid peaks, and emergencies before build. Participants will also gain insight into compliance pathways, phased capex strategies, and governance models that translate vertiport concepts into deliverable infrastructure for 2026–2030 deployment.

15:00



Enabling Hydrogen Fuel Cell Electric Aviation—from eVTOL to Commuter & Regional

TBA: Dr. Andreas Bodén, SVP & CTO, PowerCell Group

This session dives into fuel-cell propulsion design from stack and balance-of-plant engineering to hybridization, thermal/water management at altitude, and storage pathways from 350/700-bar tanks to LH₂. It will cover safety and compliance evidence (DO-160, lightning, propulsion cases), durability mechanisms and test profiles, and the cost/degradation roadmaps regulators and operators expect. Participants will gain practical methods for right-sizing battery buffers, integrating storage safely, and managing heat, water, and transients, while also tracing supplier qualification, infrastructure options, and MRO concepts that enable a scalable ramp from eVTOL to regional aircraft.

15:40

ERC

Engineering a Medevac eVTOL for European HEMS: From Requirements to Evidence

David Loebl, CEO, ERC

This technical deep-dive shows how to engineer a medevac eVTOL that truly meets European HEMS at scale—translating mission and regulatory demands into verifiable requirements, credible safety/availability targets, and audit-ready V&V and industrialization evidence. We'll convert HEMS essentials (stretcher geometry, two-medic ergonomics, rooftop constraints, NVIS/night IFR) into KPIs, allocate SC-VTOL Enhanced objectives via FHA>PSSA>SSA>CCA, and specify EMC/EMI environments so avionics and IEC 60601 medical devices coexist with a minimal DO-160 stack. Attendees will learn to right-size energy/thermal buffers for diversion and loiter, define charge windows/interlocks/pad power to protect availability and thermal-runaway margins, set and mitigate noise/downwash limits at 2 m AGL, and mandate maintainability/hygiene (LRU access, tool-less swaps, disinfectant-safe materials). We'll also outline IFR-ready procedures (PBN rooftops, contingency/abort logic, NVIS, telemedicine links with explicit latency budgets) and lock special-process controls, traceability, APQP/PPAP, and a rig>HIL>ground>flight V&V sequence to deliver certification and day-one fleet readiness.

16:00



Cruise on SAF, Lift on Electrons: The Zuri Hybrid Architecture

Michal Illich, CEO, Zuri

Zuri is developing a hybrid-electric VTOL optimized for regional missions, targeting 700+ km range with a SAF-compatible cruise engine and a full-scale TD 2.0 demonstrator in Prague. This session distills Zuri's tiltrotor aerodynamics, hybrid propulsion integration, and manufacturability—first design into actionable lessons: scoping RAM routes and ground infrastructure that exploit hybrid range; partitioning electric VTOL lift from cruise power with clear power-split and thermal constraints; managing transition stability and redundancy sized for regional weather; carrying forward TD 2.0 manufacturing choices to minimize demo-to-serial rework; and organizing co-located teams and rapid test loops to compress design-build-test cycles.

OEM/Manufacturer €800

Vendor/Supplier €1,300

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16:20 | Afternoon Refuel & Connect

17:00

Composites That Certify & Scale

TBA (Structures & Materials Lead)

eVTOL airframes push composites into high-rate, safety-critical service—thin skins, complex joints, tight mass, lightning, and repairability under airline-like utilization—so this session maps a practical blueprint from allowables to automation. We'll compare thermoset OOA/RTM vs. thermoplastics (welded ribs/skins) across weight, cycle time, rework, and FST; engineer damage/crash tolerance (impact/DT, bird-strike, crash energy paths), repair schemes, and conformity; optimize joining (co-cure vs. secondary bonding, hybrid bolt/bond, inserts) with LSP zoning, grounding, and bondline resistance targets; industrialize rate with AFP/ATL, press-formed TP substructures, RTM cells, in-mold sensing, and closed-loop control; harden battery/thermal interfaces (enclosures, firewalling, venting, EMI shielding, heat rejection); and tie it all to cert evidence—from coupons>elements>sub-components>articles—with acceptance criteria, repair substantiation, and production conformity records.

17:20

Bond, Cure, Verify: Adhesives & LSP Integration at Production Rate

TBA (Structures & Manufacturing Engineering Lead)

Adhesive bonding is mission-critical for lightweight eVTOL primaries—but rate production magnifies risks from surface prep, cure control, and LSP integration. This session shows how to turn composites joining into a controllable, auditable system: selecting per-part joints (co-cure, secondary, hybrid bolt/bond); building the stack with the right film/paste adhesive, thickness/fillet control, and integrated LSP without print-through; enforcing surface preparation and cleanliness (abrade/peel-ply/chem, Dyne/FTIR/tape, out-time/humidity, witness coupons); controlling cure with autoclave/OOA profiles, in-situ monitoring (dielectric/FBG), SPC, and full MES genealogy; engineering electrical performance (bondline resistance targets, LSP zoning, CF-Al isolation); verifying the “invisible” with NDT suited to thin sections plus targeted destructs and repair criteria; integrating lightning/EMC (co-bonded mesh/foil, earthing, edge terminations, continuity checks); planning MRO (standard scarf/patch, allowable knock-downs, on-wing access, compatible chemistries); and flowing at rate with cell layout, robot bead-dispense validation, takt planning, FPY dashboards, and hard go/no-go gates.

17:40

Battery Passports for eVTOL: Compliance, Traceability & Ops Value

TBA (Battery Systems & Compliance Lead)

From February 2027, the EU Battery Regulation mandates digital passports for large rechargeable packs—directly impacting eVTOL propulsion batteries. This session turns policy into a build-and-operate playbook: classifying packs and supply-chain roles, defining the required data model (ID, durability, carbon footprint, recycled content, usage/safety), and embedding it in MBSE/PLM/MES workflows from inspection to service release. We'll map passport data to EASA evidence for conformity and continued airworthiness, show how to

link it with MRO records, health histories, and end-of-life decisions, and outline supplier KPIs, cybersecurity, and governance—transforming compliance into traceability, safety, and ESG value.

18:00

HIL/SIL & Evidence Automation: Shrinking Risk, Cost, and Time-to-Cert for eVTOL

TBA (Chief Verification & Validation Engineer, eVTOL OEM/Tier-1)

eVTOL programs are straining under test capacity and certification demands, making SIL/HIL indispensable for validating BMS, flight controls, and electric drives before flight while automating audit-ready evidence. This session shows how to architect benches with real-time plant models and fault injection, run structured tests linked to FHA>PSSA>SSA>CCA requirements, and trace results end-to-end into conformity artifacts. We'll cover configuration control, automation of paperwork, and replay of hazardous scenarios to cut flight-test churn—while reusing rigs for production, regression, and in-service investigations, creating a scalable path from prototypes to rate-ready fleets.

18:20

Continued Airworthiness & MRO for High-Utilization eVTOL Fleets

TBA (Head of Continuing Airworthiness / MRO Engineering)

eVTOL economics demand high utilization and rapid turnarounds, which requires a cert-grade continued airworthiness system bridging design, manufacturing, and operations. This session covers MSG-3 task development from FHA>PSSA>SSA>CCA, design-for-maintainability features that cut time-on-task, and digital records that tie config control, parts genealogy, and BMS baselines to each tail number. We'll explore condition-based maintenance with SHM, vibration, and battery health data, define in-service SoH/SoC tracking and safe-state procedures, and map vertiport turnaround SOPs for inspections, charging, and defect management. Finally, we'll address spares, rotatable pools, and AOG playbooks, showing how to generate audit-ready reliability evidence for regulators and lessors while sustaining fleet-scale readiness.

18:40

Quiet by Design: Propulsors, Aeroacoustics & EU Noise Certification

TBA (Aeroacoustics & Propulsor Engineering Lead)

eVTOL viability hinges on acoustics—specifically psychoacoustics, tonal suppression, and certifiable noise pathways in Europe. This session translates rotor/prop design, operations, and test methods into a cert-ready playbook: defining psychoacoustic metrics as design requirements, applying tone-killing strategies (blade counts, spacing, planform/twist tailoring, TE serrations, porous edges, array de-phasing), and correlating CFD/CAA predictions with tunnel and pad-array tests. We'll also cover urban trajectory shaping, manufacturing tolerances, and operational levers such as RPM caps, quiet-hour procedures, and acoustic monitoring—showing how to achieve certifiable noise performance without sacrificing thrust, efficiency, or manufacturability.

19:00

Tech-Led, On-Demand Scheduling for eVTOL Networks

TBA (Ops Research / Dispatch & U-space Integration Lead)

On-demand air mobility only works if real-time tech delivers—matching demand with aircraft, crews, vertiport pads, charging slots, and U-space procedures minute by minute. This session shows how to turn algorithms into operations for European city-pairs and airport shuttles: demand prediction and assignment, routing and pooling under time windows, and charging orchestration across pads and SoC limits. We'll cover disruption recovery, U-space integration, and compliance through traceable logic and audit logs, while linking revenue models and SLAs to operational fairness—all underpinned by secure, telemetry-driven digital twins of fleets and vertiports.

19:20

Weather That Decides the Mission: Micro-Weather, Vertiport Sensing & Dispatch Logic

TBA (Aviation Meteorology & AAM Ops Integration Lead)

eVTOL reliability will hinge on ultra-local weather, not regional TAFs. This session shows how to turn micro-weather sensing into real dispatch, charging, and U-space decisions: equipping vertiports with met masts, LiDAR/SODAR, ceilometers, and cameras; fusing data with mesoscale models into 5–10 minute nowcasts; and setting thresholds for approach, hover, and downwash limits. We'll link weather logic to routing, altitudes, ETAs, and SoC windows, address icing forecasts and pre-conditioning SOPs, and integrate constraints directly into U-space approvals. Finally, we'll cover resilience tactics, in-service model tuning, and procurement standards (SLAs, secure APIs, failover) to keep fleets on schedule in urban conditions.

19:40

Crashworthiness & Occupant Protection: Designing to Survive and Exit

TBA (Structures & Safety Engineering Lead)

eVTOL cabins must deliver crash protection under vertical and oblique loads while meeting mass and rate constraints. This session translates crash safety into an executable plan: defining VTOL/transition load cases and energy paths; designing seats/restraints to 16/19-g philosophies with HIC/neck criteria; and engineering crashworthy structures with crush features, sacrificial members, and composite toughening. We'll cover FST and post-crash fire strategies, jam-tolerant egress solutions, and HV battery isolation/containment. The verification roadmap spans coupons to full-scale sled/drop tests with ATD correlation, while production feasibility addresses repeatable bonds/joints, repairability, and traceable conformity records.

20:00 | Eats • Beats • Meets

OEM/Manufacturer €800

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