



THE EVTOL SHOW

11 FEBRUARY 2027 | STUTTGART, GERMANY



LIGHTWEIGHT
MATERIALS



MANUFACTURING



BATTERY THERMAL
MANAGEMENT



AVIONICS



BATTERY SYSTEMS
& TECHNOLOGY



CHARGING
INFRASTRUCTURE



VERTIPORT



SAFETY
CERTIFICATION

THE LEADING TECHNICAL-CONFERENCE & EXPO FOCUSED ON
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AIRPORT

1 DAY
TECHNICAL AGENDA

40+
EXPERT SPEAKERS

60+
EXHIBIT SHOWCASES

400+
GLOBAL ATTENDEES



WELCOME TO THE **EVTOL SHOW EUROPE 2027**

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 2027 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.

08:10



Chair's Opening Remarks From Vision to Reality: Enabling Safe, Scalable eVTOL Operations in Europe

David Bausek, CTO, Volocopter

Europe's eVTOL and Advanced Air Mobility sector is entering its most consequential phase. After years of concept development, flight demonstrations, and prototype testing, the focus has shifted decisively to certification, industrialisation, and real-world operations.

The industry's central challenge is no longer whether eVTOL aircraft can fly, but whether they can be certified, manufactured at scale, safely integrated into existing aviation systems, and operated reliably in complex environments, while earning the trust of regulators, operators, and the public.

These opening remarks set the strategic and regulatory context for the conference—where Europe stands today, what must happen to move from programmes to operations, and where the real barriers now lie across system safety, certification maturity, operational readiness, infrastructure integration, and public trust.

A particular focus is placed on the evolving role of regulation in enabling progress, including the current state of European certification pathways, how regulatory expectations compare globally, and the shared responsibility between regulators, OEMs, suppliers, operators, and infrastructure providers.

08:30

EHANG

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

**Jose Ignacio Rexach, Chief Commercial Officer
EUROPE, EHANG**

The certification of EHANG's EH216-S in China marked a historic milestone for the eVTOL industry, transitioning from prototype development to commercial operations. Examine the technical, regulatory, and operational lessons from China's breakthrough and explore how these can inform European certification strategies.

- Understand the certification pathway that enabled EHANG to achieve type certification and airworthiness approval under CAAC standards, including the technical and regulatory criteria involved.
- Compare and contrast global regulatory frameworks by identifying the key differences between CAAC, FAA, and EASA certification approaches, and evaluate how these divergences impact international harmonisation for eVTOL aircraft.
- Assess the requirements for commercial deployment of eVTOL operations, including safety-case development, operational readiness, and integration with supporting infrastructure in China's first approved passenger flights.
- Identify the primary scaling challenges faced by Western regulators and industry, and analyse what the U.S. and Europe can learn from China's progress to safely accelerate certification, foster innovation, and enable public acceptance and efficient airspace integration.

08:50



Security Testing: Dark Magic or Something Already Known?

**Dr. Jürgen Dürrwang, Senior Security Expert,
ITK Engineering GmbH**

As aircraft become increasingly software-defined and connected, cybersecurity is no longer an IT concern — it is a safety and certification issue.

This session examines the critical role of penetration testing in aviation, demystifying what is often perceived as a "black art" and showing how many successful attacks exploit well-understood vulnerabilities rather than exotic techniques.

Drawing on examples from multiple domains, the presentation demonstrates how systems that appear robust can still be compromised — and why these lessons are directly transferable to modern aircraft and eVTOL platforms.

Key attack vectors explored include:

- Exploitation of vulnerabilities in aircraft systems
- Manipulated or compromised software components within the supply chain
- Inadequate protection of communication links and interfaces

The session clearly differentiates penetration testing from traditional functional safety testing under DO-178C and DO-254, explaining why functional correctness does not equate to security robustness.

It also highlights the limits of automation in security testing, emphasizing the continued need for human expertise to interpret results, assess real risk, and define effective countermeasures.

- Understand why penetration testing is a core element of aviation cyber-risk management, not an optional add-on
- Identify common and emerging attack vectors relevant to aircraft and eVTOL systems
- Clarify the distinction between functional safety assurance and security assurance
- Learn why expert analysis is essential to translating test results into meaningful risk reduction
- Gain a practical understanding of how penetration testing contributes to overall aircraft safety and certification readiness

This session provides a grounded, engineering-led view of why security testing is now fundamental to safe, certifiable, and resilient aircraft systems.

09:10



Solving the Weight- Efficiency-Reliability Trilemma in Electric Aviation Propulsion

**Christian Grim, General Manager,
Bosch Aviation Technology**

In the fast-evolving world of aerospace, particularly within the UAV and defense markets, companies must swiftly adapt to new demands. Implementing a Software Factory, combined with advanced virtualization, provides the necessary flexibility to efficiently and economically apply software changes across various platforms. While this endeavor is complex and presents challenges such as ensuring consistent integration and resource allocation, the benefits outweigh the hurdles. A Software Factory empowers organizations to streamline workflows, reduce human error, and enhance scalability, facilitating rapid innovation and agile

responses to market changes. Our presentation will demonstrate how this approach can be a transformative force in optimizing development and accelerating technological progress in the eVTOL industry

- Understand why software delivery has become a critical risk factor for eVTOL programmes, impacting integration, schedules, and certification readiness.
- Recognise the limitations of fragmented and manual development approaches as software scope, autonomy, and update frequency increase.
- Identify how a Software Factory approach enables repeatable, traceable, and certifiable software delivery without undermining regulatory intent.
- Assess how virtualization and automation can be applied responsibly to support certification, long-term maintainability, and fleet-scale operations.

09:30



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

David Bausek, CTO, Volocopter

Volocopter is transitioning from flight trials to full certification. CTO David Bausek will outline how DOA/POA processes, conformity steps, and compliance evidence are being sequenced to secure Type Certificate. The session covers application of SC-VTOL and key MOCs across handling qualities, crashworthiness, lightning/HIRF, and battery safety, and how test results are translated into cert-grade evidence. David will also detail the propulsion and energy safety case, along with how production readiness, supplier qualification, U-space/UTM integration, and vertiport and maintenance considerations are built into Volocopter's path to commercial operations.

- Understand how to sequence DOA/POA processes, conformity activities, and compliance documentation to establish a structured and regulator-aligned pathway toward Type Certificate.
- Apply SC-VTOL requirements and current Means of Compliance to key areas including handling qualities, lightning/HIRF protection, crashworthiness, and propulsion battery systems.
- Learn how to translate flight-test and urban trial data into certification-grade evidence, including methods for risk identification, reduction, and retirement.
- Examine the components of a propulsion and energy safety case, including thermal-runaway detection and containment, high-voltage protection strategies, and EMC/EMI robustness.
- Recognize how production readiness contributes to certification, covering supplier qualification, serial manufacturing preparation, and inspection/quality-assurance regimes.
- Explore the operational integration requirements for commercial eVTOL deployment, including U-space/UTM procedures, vertiport interface alignment, and maintainability-by-design principles.

10:00 | Networking Break

Volocopter Walk-Around

with David Bausek, CTO, Volocopter

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OEM/Manufacturer €300

Vendor/Supplier €500

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Standardising Software Development in a Multi-Variant eVTOL World

Tobias Domke, Senior Expert, **ITK Engineering GmbH**

Software has become one of the industry's greatest sources of risk—driving schedule delays, integration issues, rework, and certification uncertainty.

This session addresses the growing challenge of scaling software development across complex, safety-critical, and highly configurable eVTOL platforms. Drawing on experience from aerospace, UAV, and defence programmes, it shows how fragmented toolchains, manual processes, and inconsistent environments limit speed and reliability, particularly as software content, autonomy, and update frequency increase.

Learn how a Software Factory approach, supported by advanced virtualization, can replace ad-hoc development with structured, repeatable, and certifiable software pipelines. Tackle the real-world obstacles to adoption—including integration complexity, resource constraints, and organisational change; how eVTOL developers can regain control of software delivery, reduce risk, and support certification, long-term maintainability, and fleet-scale deployment.

- Understand why software delivery has become a critical risk factor for eVTOL programmes, impacting integration, schedules, and certification readiness.
- Recognise the limitations of fragmented and manual development approaches as software scope, autonomy, and update frequency increase.
- Identify how a Software Factory approach enables repeatable, traceable, and certifiable software delivery without undermining regulatory intent.
- Learn where software industrialisation intersects with certification frameworks, including DO-178C, tool qualification, configuration management, and continued airworthiness.
- Assess how virtualization and automation can be applied responsibly to support certification, long-term maintainability, and fleet-scale operations.

11:00



Designing and Certifying Flight-Critical Actuation Systems for Autonomous eVTOL Aircraft

Joachim Bihr, Chief Engineer, **Liebherr-Aerospace Lindenberg GmbH**

Flight-control actuation is one of the most safety-critical and technically demanding systems—directly affecting controllability, redundancy, reliability, and certification outcomes.

Attendees will gain insight into how next-generation eVTOL programs are engineering certifiable electric actuation systems for autonomous aircraft. The session details how modular EMA architectures are being transformed to meet strict weight, integration, and reliability requirements, while supporting advanced configurations such as tilt-rotors and distributed propulsion.

Discussion points include the integration of actuation with avionics and flight-control systems, the implementation of built-in redundancy to meet stringent safety objectives, and the role of early supplier-OEM collaboration in supporting certification, scalability, and

entry into full-rate production. The session also provides insight into how industrialisation and supply-chain readiness are being addressed alongside development and certification—an increasingly critical consideration as eVTOL programmes move toward fleet deployment.

- Actuation system requirements for autonomous, all-electric eVTOL aircraft
- Electro-mechanical vs. hydraulic architectures in next-generation flight control
- Managing redundancy, fault tolerance, and safety objectives for certification
- Integration of actuation with avionics and flight-control systems
- Adapting modular, certifiable flight-control technologies to eVTOL constraints
- Supplier-OEM collaboration across development, certification, and scaled production
- Industrialisation and manufacturing considerations for flight-critical systems

11:20



Full-Mass Prototyping: What You Learn When You Design Close to Certification from Day One

Sai Sudheera Valluri, Head of Manufacturing Engineering, **ERC-System GmbH**

Many eVTOL programmes delay full-mass, representative prototyping until late in development—often discovering hard certification, integration, and operability challenges too late to fix cheaply.

Munich-based ERC System took a different path.

Focused on manned eVTOL aircraft for emergency medical transport, ERC committed early to full-mass, near-certification-intent prototypes, aligning structure, propulsion, energy storage, and operational constraints far earlier than is typical in the sector.

In this session, David Löbl, CEO of ERC System, shares candid, engineering-led insights from developing an aircraft as if it were heading toward certification from the very beginning—rather than treating certification as a downstream problem.

The result: fewer surprises, clearer trade-offs, and a much more realistic understanding of what it actually takes to bring a manned eVTOL into regulated service.

- Identify the critical failure modes that only emerge at full aircraft mass, including weight growth, centre-of-gravity migration, thermal constraints, and redundancy penalties—and understand why sub-scale success often masks these risks.
- Evaluate why mission-critical use cases (such as medical transport) demand different design priorities, shifting focus from peak performance metrics to payload certainty, dispatch reliability, and certification credibility.
- Understand how treating certification as a design constraint—rather than a downstream phase—fundamentally reshapes eVTOL architecture, influencing structural layout, propulsion sizing, energy systems, and integration choices.
- Apply practical lessons from ERC System's full-mass prototyping approach, including what can realistically be adopted by other eVTOL OEMs—and where this strategy introduces unavoidable trade-offs.

11:40



AAM Use Cases, Operational Constraints, and Infrastructure Integration

Michal Illich, CEO, **Zuri**

Real-world missions—regional passenger routes, airport-bypass operations, and cargo logistics—now determine many of the technical choices behind AAM aircraft. The presentation links these operational requirements to propulsion architecture, energy systems, performance trade-offs, and infrastructure integration, providing a clear view of how mission-driven design is essential for scalable and certifiable eVTOL and hybrid-electric aircraft.

- Translate Advanced Air Mobility (AAM) use cases into concrete aircraft performance and systems requirements, ensuring alignment between mission needs and technical architecture.
- Differentiate between regional and urban mission profiles and understand how each drives distinct design decisions across range, speed, payload, and operating environment.
- Evaluate propulsion and energy-system trade-offs based on mission-driven demands for range, payload capability, efficiency, and operational margins.
- Recognize key infrastructure constraints—including airports, vertiports, ground energy supply, and turnaround logistics—and how they influence aircraft configuration and operational planning.
- Understand the gap between operational assumptions and certification or safety requirements, and how these factors shape viable aircraft architectures.
- Learn how to design aircraft for scalable, repeatable commercial operations, moving beyond demonstration models to systems capable of sustained, real-world service.

12:00



Noise Compliance to Public Acceptance: Measuring and Managing the Acoustic Impact of eVTOL Operations

Lars G. Winberg, Business Development Manager – Automotive, Aerospace & Defense, **GRAS Sound & Vibration (Axiometrix Group)**

As propulsion, autonomy, and performance advance, noise remains the factor that will determine whether eVTOL aircraft can be accepted and certified for urban operations. This session highlights the crucial role of accurate, repeatable acoustic measurement in meeting regulatory requirements and building public trust.

The presentation covers recent progress in eVTOL noise testing—including the NASA-collaborated 67AX microphone configuration—and shows how real-world data is shaping emerging standards such as ISO 5305:2024. Drawing on active test campaigns with leading OEMs, it illustrates how robust measurement frameworks are already influencing aircraft design and operational concepts.

- Identify eVTOL-specific challenges in noise testing, including variability in flight profiles, propulsion configurations, and data consistency.
- Learn how the 67AX microphone configuration is developed and applied to capture high-fidelity acoustic data for emerging eVTOL platforms.
- Examine how acoustic datasets are shaping ISO 5305:2024 and upcoming global noise-measurement standards, influencing certification pathways.
- Draw insights from NASA-led eVTOL noise test campaigns, including methodologies, test-range design, and public communication strategies.
- Understand how technology, regulation, and societal expectations must be aligned to enable acceptable, certifiable, and scalable eVTOL operations.

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OEM/Manufacturer €300

Vendor/Supplier €500

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12:20



From Demonstrators to Deployable Infrastructure: What Real Vertiports Are Teaching Europe About AAM

Veronica Reczek MRAeS, Senior Vertiport Planner, Skyports Infrastructure

Vertiports are one of the most complex and underestimated elements of the AAM ecosystem, requiring seamless integration of energy systems, passenger flows, airspace procedures, autonomy, and community acceptance—often within tight urban constraints.

Drawing on Skyports' global portfolio of operational sites and testbeds, this session outlines what it takes to move vertiports from concept to deployable infrastructure. Case studies include the Dubai vertiport network; the Paris terminal testbed with Groupe ADP; the Skyports-Joby "zero-wait" Living Lab; London Heliprot technology trials; and the Singapore heliport developed with Volocopter. It also highlights Skyports' work with Wisk on autonomous eVTOL Concepts of Operation.

Together, these examples show how vertiport design, operations, regulation, and technology must evolve in parallel to support scalable, certifiable AAM across Europe.

- What real vertiport deployments reveal about design, operations, and regulation
- Lessons from European and global vertiport testbeds
- Passenger experience, turnaround time, and "zero-wait" operations
- Integrating vertiports with existing urban and airport infrastructure
- Preparing vertiports for autonomous eVTOL operations
- What Europe must solve to move from pilots to networks

12:40



Beyond the Aircraft: Eve's Integrated Approach to eVTOL Operations

Juliana Rodrigues, Head of Sales Engineering, Eve Air Mobility

Eve Air Mobility is moving from programme development into deployment readiness, following the maiden uncrewed hover flight of its full-scale engineering prototype at Embraer's Gavião Peixoto test facility. This session outlines how that milestone drives a disciplined 2026 flight-test campaign and certification pathway with ANAC, targeting entry into service around 2027.

But the focus goes beyond the aircraft. Eve will explain how it is building an integrated operating model designed for scalable, repeatable urban missions, combining its lift-and-cruise eVTOL with TechCare services and Vector urban air traffic management software. Vector's real-world deployment with Revo at the São Paulo Grand Prix provides a practical look at managing high-density operations and the operational data needed to mature future eVTOL networks. The session concludes by linking technical progress to commercial execution, including operator commitments and how recent financing supports Eve's roadmap through 2028 and beyond.

- Understand how Eve is sequencing testing and certification activities to support type certification and entry-into-service planning.
- Learn how an integrated portfolio of solutions (TechCare + Vector) supports dispatch reliability, operational readiness and scalable network operations.
- Explore what real-world operations with Revo reveal about high-tempo flight coordination,

vertiport/ground workflows and ecosystem maturity.

- Connect programme milestones to commercial rollout — from operator commitments to multi-year execution funding.

13:00 | Industry Exchange Lunch

Hosted by **LIEBHERR**

14:00



Next-Generation Thermal & Material Solutions for Safe, High-Performance eVTOL Propulsion and Energy Systems

Bret A. Trimmer, Applications Engineering Manager, Neograt Solutions

As eVTOL platforms push the limits of energy density, power density, and safety, thermal management and advanced materials have shifted from "component support" to design enablers. Poor thermal control not only limits battery performance and life, but directly impacts certification risk, safety margins, mission reliability, and overall aircraft weight — making thermal solutions a system-level architecture challenge rather than an afterthought.

- Understand the thermal, structural, and flame-retardant advantages of advanced graphite and graphene-infused materials, and their relevance to eVTOL and electric aviation applications.
- Identify application-specific material solutions for eVTOL battery packs, heat spreaders, and high-power electrical components, and how they address performance and safety requirements.
- Learn integration strategies for managing thermal loads in power electronics, BMS interfaces, and other flight-critical electrical systems.
- Evaluate how material choices impact weight, safety certification, and lifecycle performance, particularly under the high-duty cycles expected in urban and regional AAM operations.
- Gain practical insights from collaborative research and real-world aerospace use cases, understanding the criteria that influence material adoption in aviation programs.

14:20



Protecting the Electric Aircraft: Lightning Strike Materials for eVTOL Systems

David Best, Lightning Strike Protection Manager, PPG Dexmet®

Protecting composite structures against lightning strike is an essential consideration for safe, lightweight eVTOL designs. This session outlines how expanded metal solutions are designed and manufactured to meet these challenges.

The session highlights how traditional aerospace material technologies are being adapted for electric vertical flight to support manufacturability, certification, and long-term durability.

- Traditional aircraft zoning for per SAE ARP5414
- Evaluate material trade-offs involving weight, protection level, performance, manufacturability, and certification constraints
- Manufacturing process to provide a brief

overview of how expanded products are produced

- Composite layouts and the incorporation of ECF/ EAF solutions
- New technology development including coated EAF and perforated technology.

14:40



The Hydrogen Advantage: Range, Utilisation, and Economics for Next-Gen eVTOLs

Jonathan Douglas-Smith, Head of Development, IE-FLIGHT, Intelligent Energy

Battery-electric eVTOLs face clear limits in range, utilisation, and operating cost. This session explores how hydrogen PEM fuel cells can overcome these constraints, drawing on modelling and case studies from the IE-FLIGHT programme. It outlines how fuel-cell architectures enable 2–5× range extension, rapid refuelling, and consistent performance across wide temperature ranges.

Key focus areas include thermal management and transient power response—critical challenges during hover and high-power phases—and how evaporatively cooled PEM systems reduce thermal-system size, drag, and mass while improving responsiveness and allowing smaller hybrid batteries.

The session also compares total cost of ownership between battery-electric and hydrogen-electric eVTOLs, highlighting utilisation, component life, and downtime advantages. Supply-chain, recyclability, and certification implications are discussed as hydrogen-electric aircraft move toward service entry.

- Understand the energy-density and range limitations of battery-electric eVTOL architectures and how they constrain commercial operations.
- Learn how hydrogen PEM fuel cells function as primary or hybrid power sources, and their potential advantages for next-generation eVTOLs.
- Examine thermal-management challenges during hover, climb, and other high-power phases of flight.
- Assess transient power response requirements and how they influence battery sizing, hybridisation strategies, and overall system stability.
- Compare refuelling time versus charging time and evaluate the impact on operational utilisation and fleet efficiency.
- Analyse total cost of ownership (TCO) differences between battery-electric and hydrogen-electric eVTOLs, particularly for high-frequency commercial operations.
- Consider environmental performance, recyclability, and lifecycle implications of hydrogen-electric versus battery-electric architectures.

15:00



Operational Proof-of-Concept: From Aircraft to Ecosystem

Oliver Reinhardt, Head of Design Organization, Odys Aviation

The real challenge for AAM is integrating advanced aircraft into a full, certifiable ecosystem that includes regulators, infrastructure, operators, and real mission profiles. This session highlights one of the most comprehensive operational proof-of-concept programmes in the sector: Odys Aviation's partnership with the Oman Civil Aviation Authority and Ministry of Transport.

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It explores how hybrid VTOL aircraft are being tested within a complete AAM framework—regulation, infrastructure, operations, and risk assessment—using ICAO, JARUS, and SORA methodologies to enable live operations. The session also outlines Odys Aviation's progression from prototype development to full-scale proof testing and commercial launch, supported by its recent \$26M Series A, and shows how hybrid propulsion, autonomy, and aircraft performance are being validated through operational demonstration rather than theoretical certification routes.

Finally, it examines the growing role of dual-use regional mobility, with Odys' hybrid VTOL designs serving cargo, passenger, EMS, and defence missions. Case studies show how multi-mission capability improves utilisation, resilience, and commercial viability. Together, these insights provide a blueprint for moving eVTOL and hybrid VTOL aircraft from isolated demos to real operations—and lessons for Europe as it pursues sandboxing and ecosystem integration.

- Understand how to build an end-to-end AAM ecosystem that integrates aircraft technology, regulatory frameworks, infrastructure, and operational concepts.
- Learn how hybrid VTOL deployments are executed within ICAO, JARUS, and SORA frameworks, and what these methodologies require in practice.
- Examine the transition from prototype development to full-scale proof-of-operation, including hybrid VTOL testing and validation at aircraft scale.
- Explore certification strategies that rely on operational demonstration, linking technical maturity directly to deployability.
- Recognize the engineering considerations of integrating hybrid propulsion into a VTOL aircraft, including performance, safety, and scalability.
- Assess dual-use regional mobility applications—cargo, medevac, defence, and civilian connectivity—and their impact on utilisation and commercial viability.
- Identify lessons from Oman's AAM programme and how they can inform European regulatory sandboxes and early deployment models.

15:20



Insuring the Unknown: How Risk, Regulation, and Insurance Will Shape the First Commercial eVTOL Operations

Simon Ritterband, Managing Director, **Moonrock Insurance**

Aircraft may be certifiable. Technology may be mature. Operators may be ready.

But without insurable risk profiles, commercial operations do not fly.

In this session, Moonrock Insurance, a specialist aviation insurance broker working across emerging aerospace sectors, explores how insurers and underwriters are assessing eVTOL aircraft, operators, vertiports, and AAM ecosystems—and what OEMs, operators, and infrastructure providers must do today to avoid delays tomorrow.

Drawing on experience across novel aviation risks, Moonrock demystifies how certification status, operational concepts, data maturity, and safety cases directly translate into insurance availability, pricing, and coverage limits—and why early engagement with insurers is now essential to programme credibility.

- Identify how novel eVTOL architectures and operations reshape liability allocation, including the implications of autonomy, distributed propulsion, battery and fire risk, vertiports, and urban passenger transport.
- Assess how certification progress directly

influences insurability, and why a lack of insurance clarity can delay financing, leasing, route approval, and public-sector partnerships—even after technical certification.

- Recognise what underwriters expect from OEMs, operators, vertiport developers, airports, and municipalities, and how early engagement with insurance markets improves investor confidence, operator readiness, and time-to-service.
- Apply practical steps to make eVTOL programmes 'insurable by design', aligning safety cases, operational concepts, and risk data with real-world insurance requirements.

15:40 | Afternoon Networking

Hosted by Moonrock Insurance

Zuri Walk-Around

with **Michal Illich**, CEO, **Zuri**

16:40



Munich Airport's AAM Strategy, First Routes, and Vertiport Deployment in Dense Urban Environments

Olaf C. Bünck, Senior Manager, **amd.sigma – strategic airport development GmbH**

The session introduces Munich Airport's AAM strategy, including a first candidate eVTOL route, the design and integration of a vertiport located on a multi-storey car park, and the launch of a government-facing consulting report that provides practical guidance for implementing vertiports within dense urban environments.

Rather than treating vertiports as isolated infrastructure assets, this approach positions them as transport, real-estate, energy, and regulatory systems that must coexist with cities, communities, and existing mobility networks.

- Why urban vertiports must be approached as city-planning infrastructure rather than standalone aviation assets, with early consideration of noise, zoning, fire safety, access, energy supply, and public acceptance.
- Evaluate Munich Airport's end-to-end AAM strategy and first candidate route, gaining insight into how airport-to-city connections are being prioritised, sequenced, and operationalised.
- Apply practical guidance from Munich Airport's government consulting framework on urban vertiports, including site selection, regulatory coordination, community integration, and infrastructure readiness—translatable to other European airports and cities.

17:00



A Pragmatic, Near-Term Path to Electric Flight: Lessons from Low-Complexity Electric Aircraft

Lucas Marchesini, Co-Founder, CEO & CTO, **MANTA Aircraft**

A critical industry question is emerging: what electric aircraft can realistically reach entry-into-service first?

This session presents a pragmatic perspective from the light electric aircraft segment, where certification pathways are shorter, architectures

are simpler, and regulatory engagement is already underway within European CS-23 frameworks. Drawing on real development experience, the presentation examines how designing for certifiability—rather than maximum performance—changes aircraft architecture, system integration, and programme risk. The session highlights what larger eVTOL programmes often underestimate about system complexity, redundancy, avionics scope, and organisational readiness, and identifies which lessons from low-complexity electric aircraft do and do not translate to SC-VTOL platforms. It also positions light electric aircraft as stepping stones—providing early operational data on batteries, charging, maintenance, and pilot training that will inform the broader eVTOL ecosystem.

- Understand why low-complexity electric aircraft are likely to reach entry-into-service sooner and what this reveals about near-term pathways to electric flight.
- Learn how designing for certifiability—rather than maximum performance—shapes aircraft architecture, system integration, and programme risk, particularly under CS-23 frameworks.
- Identify the system-level challenges that larger eVTOL programmes often underestimate, including redundancy requirements, avionics complexity, and organisational readiness.
- Evaluate which lessons from light electric aircraft development translate to eVTOL/SC-VTOL programmes, and where the limits of comparability lie.
- Explore how early operations of light electric aircraft can generate valuable data on batteries, charging cycles, maintenance, environmental exposure, and pilot training that supports broader eVTOL deployment.
- Recognize the strategic role of low-complexity aircraft as stepping stones for regulators, operators, and OEMs as the industry progresses toward more complex electric VTOL platforms.

17:20



Learning to Be an eVTOL Operator — At Scale

Jeremy Akel, Group Chief Executive Officer, **Omni Helicopters International**

This session looks at what urban air mobility actually looks like in practice in a real city with real passengers. Through its Revo platform in São Paulo, Omni is operating the closest real-world analogue to an eVTOL network anywhere: high-frequency charter, fractional, and per-seat helicopter services running along dense urban corridors with the scale, repetition, and behavioural patterns that future eVTOL networks will rely on.

This live environment is revealing insights the industry simply cannot obtain from forecasts: how passengers behave under real conditions, which routes genuinely work, where vertiports bottleneck, how turnaround times hold under pressure, how pricing responds to demand, and how digital UTM workflows function with actual aircraft in complex airspace.

It also highlights the operational realities of eVTOL adoption, including the need for a mixed helicopter-eVTOL fleet and the central role of public trust and safety culture in determining the pace of scale.

- How urban air mobility can be trialled responsibly ahead of certification
- What live operations reveal about real passenger behaviour, demand, and network design
- How operational data gathered today will support regulators and accelerate readiness
- Why a mixed helicopter-eVTOL fleet is unavoidable in the early years
- Why the biggest challenge in eVTOL adoption isn't technology at all – it's people, trust, and

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- day-to-day operational discipline
- How to design eVTOL networks around real passenger behaviour
- Why established aviation operators may be Europe's strongest eVTOL adopters

17:40



Certifying, Powering, and Operating a 40-Seat Hybrid Hydrogen eVTOL

Fresha Farzam, CEO & Founder, LYTE Aviation

While much of the eVTOL sector is focused on small, battery-electric aircraft optimised for short urban hops, Lyte Aviation is pursuing a radically different vision: a large-capacity, hydrogen-electric eVTOL designed for regional and inter-city transport.

This session explores the unique technical, regulatory, and operational challenges that emerge when eVTOL concepts scale beyond 4-6 passengers and move away from battery-only propulsion. From certification complexity and energy architecture to infrastructure readiness and operational economics, the challenges faced by large hydrogen eVTOLs are not incremental—they are fundamentally different.

Rather than asking "how do we get eVTOLs flying first?", this session asks the harder question: "How do we make eVTOLs work at meaningful scale?"

- Explain why scaling eVTOLs from urban air taxis to high-capacity regional aircraft introduces fundamentally different design, safety, and certification challenges, including weight, redundancy, crashworthiness, and thermal management.
- Evaluate the technical, operational, and regulatory trade-offs between battery-only and hydrogen-electric propulsion for regional, high-payload eVTOL missions.
- Understand the certification complexity facing large hydrogen eVTOLs, including their position between SC-VTOL, transport-category expectations, and emerging propulsion regulations—without the regulatory relief available to light aircraft.
- Assess the infrastructure and operational requirements for regional eVTOL operations, including hydrogen supply, airport integration, and ground handling.
- Apply these insights to long-term OEM, regulatory, and investment decision-making, supporting the commercial viability of scalable eVTOL operations.

18:00



Multicopter Use Cases, Global Regulatory Challenges & the Importance of Government Advocacy

Rohit Wariyar, eVTOL Business Development & Public Affairs, SkyDrive

Europe risks losing momentum to regions where governments are actively enabling multicopter deployment, such as China, the UAE, and Brazil. While multicopters are on track to become the first eVTOL category to enter commercial service—thanks to simpler architectures and shorter certification pathways—Europe's fragmented regulatory environment and still-emerging AAM policy frameworks threaten to slow adoption.

With dense urban environments, stringent land-use rules, and high political scrutiny, Europe faces unique public-acceptance and planning challenges that require strong government advocacy from the outset. Meanwhile, operators, ANSPs, and vertiport developers urgently need regulatory clarity to make investment and infrastructure decisions.

This session explains why now is a critical moment for Europe to align policy, regulation, and industry if it intends to compete in the early phases of the global multicopter market.

- Understand the leading multicopter use cases globally, and how early operational deployments abroad can inform European strategies.
- Identify the regulatory differences between CAAC, EASA, and FAA systems, and how these impact certification, operational approval, and cross-border scalability.
- Evaluate the role of government advocacy and national-level AAM policy, including why city-level initiatives are insufficient on their own.
- Learn how regulatory fragmentation, public-acceptance pressures, and urban-planning constraints create deployment barriers unique to the European market.
- Assess how coordinated government-industry collaboration can accelerate adoption, improve airspace integration, and unlock early commercial use cases.
- Understand the strategic implications for OEMs, operators, and infrastructure providers, including where Europe must adapt to remain competitive globally.

18:20

SKYFLY

MOSAIC, Part 23 & the Future of Light eVTOL Certification: What New U.S. Rules Really Mean for Europe

Michael Thompson, Founder and CEO, Skyfly Technologies Ltd

The FAA's MOSAIC (Modernization of Special Airworthiness Certification) rulemaking represents the most significant change to U.S. light aircraft certification in decades—and its implications for small, lightweight eVTOLs and electric aircraft are profound.

While much of the eVTOL industry remains focused on large, Part 21/SC-VTOL certified aircraft, MOSAIC opens a parallel, faster, and potentially lower-cost pathway for electric and hybrid aircraft operating below traditional transport-category thresholds.

This session explains what MOSAIC actually changes, who it benefits, and how it could reshape the first wave of commercial eVTOL operations, particularly for light aircraft, special missions, training, regional mobility, and early market entry.

For European OEMs, regulators, and investors, understanding MOSAIC is essential—not because Europe will copy it directly, but because it reshapes competitive timelines, capital efficiency, and go-to-market strategies globally.

- Explain how the FAA's MOSAIC rule changes certification pathways for light and small eVTOL aircraft, including expanded Part 23 performance envelopes.
- Distinguish between regulatory timelines for light eVTOLs versus larger SC-VTOL aircraft, and understand why smaller platforms may enter service significantly earlier.
- Assess the competitive impact of U.S.—European regulatory asymmetry, including implications for early operations, pilot training, and commercial viability.
- Apply MOSAIC insights to near-term investment, partnership, and fleet-planning decisions, identifying which aircraft classes are most likely to fly first—and under what rules.

18:40

Closing Remarks

David Bausek, CTO, Volocopter

19:00

Drinks, Party & Fork Buffet Reception

EHang Walk-Around Questions & Answers

with Victoria Jing Xiang, COO for International, EHang

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