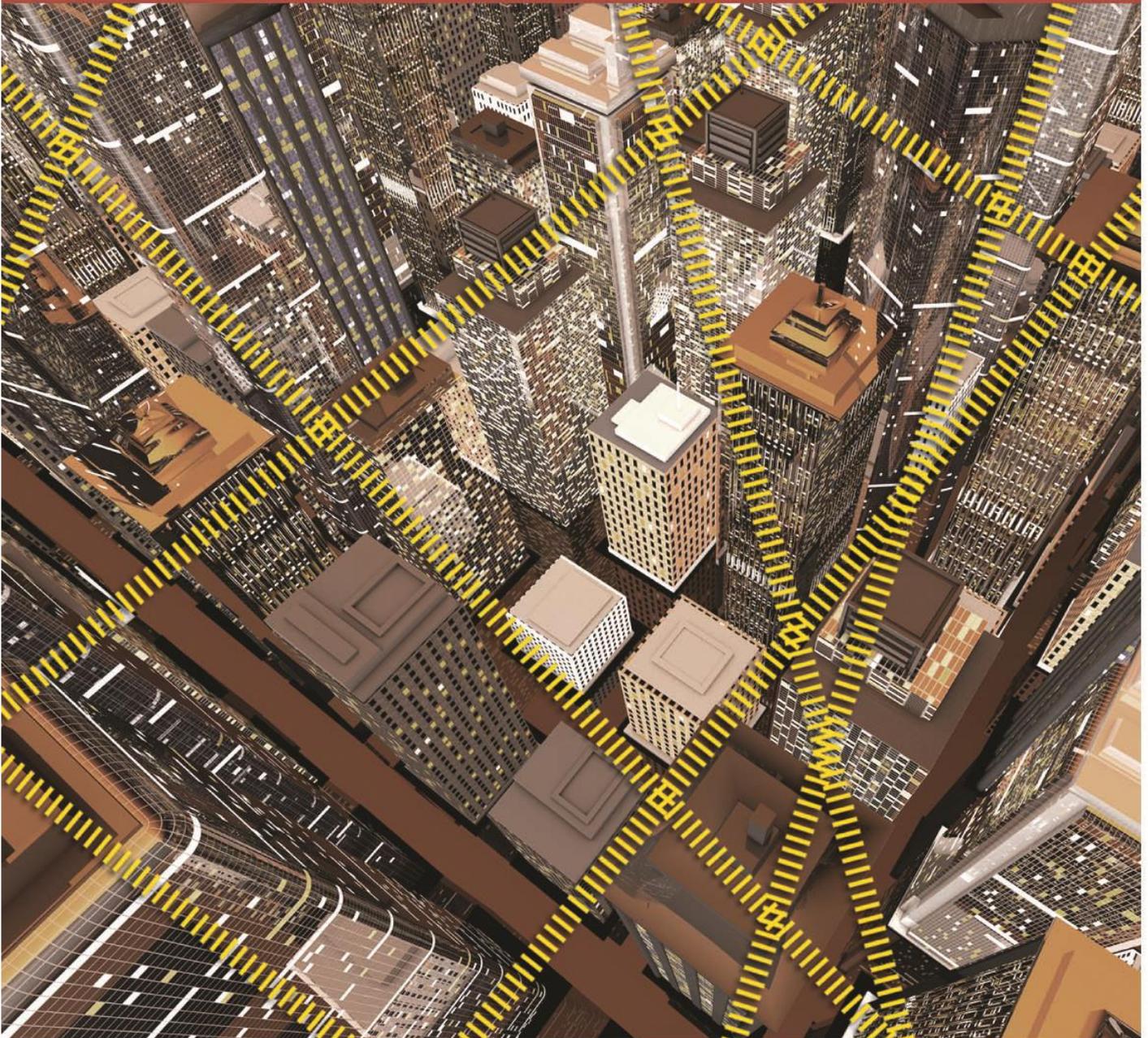




# AAM regulations, standards, CONOPS and roadmaps for passenger-carrying operations

Sample pages



# **AAM regulations, standards, CONOPS and roadmaps for passenger-carrying operations**

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*AAM regulations, standards, CONOPS and roadmaps for passenger-carrying operations* is written by Philip Butterworth-Hayes and published by Unmanned Publications Ltd, located at 61 Davigdor Road, Hove BN31RA, UK.

The information in this version is correct as at March 2026. Customised updates are available by contacting the publisher.

Telephone +44 7778030633.

Email: [philip@unmannedairspace.info](mailto:philip@unmannedairspace.info)

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# European Union Aviation Safety Agency (EASA)

## AAM Policy, CONOPS and roadmaps

Date	21 January 2025
Title	European Plan for Aviation Safety (EPAS)
Description	The second volume of EASA's EPAS includes the introduction of noise requirements for VTOL capable aircraft; "The Agency has a mandate to collect and verify aircraft noise and performance information for noise modelling around airports, as per Regulation (EU) No 598/201472 Article 7," says the text of the report. "A number of novel technologies are rapidly approaching market maturity. In order to respond proactively to these technologies and allow for smooth certification based on robust environmental assessments, a dedicated activity has been launched to assess their environmental characteristics and sustainability. This will include the electric propulsion project as well as the sustainability assessment of alternative fuels. The success of this activity will be ensured by engaging traditional stakeholders as well as aviation environment non-governmental organisations (NGOs)."
Link	<a href="http://www.easa.europa.eu/en/document-library/general-publications/european-plan-aviation-safety-epas-2025">www.easa.europa.eu/en/document-library/general-publications/european-plan-aviation-safety-epas-2025</a>

## AI, autonomy

Date	June 2024
Title	Machine Learning Application Approval
Description	<p>EASA has published their final report and executive summary of the Machine Learning Application Approval (MLEAP) project. The project identified a set of methods and tools to address the following 3 topics:</p> <ul style="list-style-type: none"><li>• Machine learning model generalisation</li><li>• Data completeness and representativeness</li><li>• Algorithm and model robustness</li></ul> <p>The final report features the project's methodology and the aviation use cases that were evaluated during the research and is available on EASA's webpage as a PDF.</p>
Link	<a href="http://www.easa.europa.eu/en/research-projects/machine-learning-application-approval">www.easa.europa.eu/en/research-projects/machine-learning-application-approval</a>

## AI, autonomy

Date	May 2023
Title	Artificial Intelligence Roadmap
Description	EASA published the first "Artificial Intelligence Roadmap" in 2020 and updated it in 2023. This has established the Agency's initial vision for the safety and ethical dimensions of development of AI tools in the aviation domain.
Link	<a href="http://www.easa.europa.eu/en/light/topics/artificial-intelligence-and-aviation-0">www.easa.europa.eu/en/light/topics/artificial-intelligence-and-aviation-0</a>

## Aircraft operator

Date	February 2026
Title	Fatigue Management (February 2026): Opinion No 02/2026 was
Description	The EASA opinion proposes harmonised flight time limitations and rest requirements specifically for air taxi and single-pilot operations.
Link	<a href="http://www.easa.europa.eu/en/document-library/opinions/opinion-no-022026">www.easa.europa.eu/en/document-library/opinions/opinion-no-022026</a>

## Aircraft operator

<b>Date</b>	9 July 2025
<b>Title</b>	Introduction of a regulatory framework for the operation of drones — Enabling innovative air mobility with manned VTOL-capable aircraft-AMC & GM to Part-IAM — Issue 1
<b>Description</b>	<p>This new regulatory material aims to enable the safe implementation of manned VCA operations and foster the acceptance and adoption of these innovative technologies. Its objectives include ensuring safe VCA operations in the air traffic management (ATM) environment, supporting innovation, providing guidance to competent authorities, manufacturers and operators, and facilitating the early adoption of Innovative Air Mobility (IAM) technologies. The new AMC and GM are therefore crucial for VCA operators, VCA manufacturers, competent authorities, flight crews, and the public, facilitating the safe and efficient integration of VCA into the European aviation system.</p> <p>The specific objectives of both amended and new AMC and GM are to:</p> <ul style="list-style-type: none"><li>• enable operators to safely implement the applicable regulations for the operation of manned VCA in the single European sky (SES);</li><li>• ensure that the applicable conditions are met as regards the safe operation of manned VCA in the ATM environment;</li><li>• support innovation and development in the field of innovative air mobility (IAM) through the implementation of an efficient, proportionate, and well-designed regulatory framework which does not unnecessarily hinder the development of the manned VCA market;</li><li>• provide guidance to the competent authorities of the EU Member States for the implementation of the applicable regulations on manned VCA;</li><li>• provide guidance to manufacturers and operators of manned VCA for the deployment of operations with manned VCA;</li><li>• support the early adoption of IAM technologies, products and services.</li></ul> <p>See also “Training for pilots, ground operations and MRO personnel” and “Airspace management”</p>
<b>Link</b>	<p><a href="http://www.easa.europa.eu/en/document-library/acceptable-means-of-compliance-and-guidance-materials/amc-gm-part-iam-issue-1">www.easa.europa.eu/en/document-library/acceptable-means-of-compliance-and-guidance-materials/amc-gm-part-iam-issue-1</a></p> <p><a href="http://www.easa.europa.eu/en/document-library/acceptable-means-of-compliance-and-guidance-materials/amc-gm-part-spa-issue-1-6">www.easa.europa.eu/en/document-library/acceptable-means-of-compliance-and-guidance-materials/amc-gm-part-spa-issue-1-6</a></p>

## Airspace management

Date	9 July 2025
Title	Standardised European Rules of the Air (SERA)
Description	Adapted general measures to ensure safe accommodation of VCA operations in ATM environment.
Link	<a href="http://www.easa.europa.eu/en/newsroom-and-events/news/easa-steps-regulatory-framework-innovative-air-mobility">www.easa.europa.eu/en/newsroom-and-events/news/easa-steps-regulatory-framework-innovative-air-mobility</a>

## eVTOLs and other AAM aircraft, including propulsion systems

Date	December 2025
Title	Easy Access Rules for Air Operations (December 2025)
Description	EASA has published Revision 23, which incorporates specific operational requirements for manned VTOL-capable aircraft (VCA). Specifically "Corrigendum to Commission Implementing Regulation (EU) 2024/1111 of 10 April 2024 amending Regulation (EU) No 1178/2011, Implementing Regulation (EU) No 923/2012, Regulation (EU) No 965/2012 and Implementing Regulation (EU) 2017/373, as regards the establishment of requirements for the operation of manned aircraft with a vertical take-off and landing capability."
Link	<a href="http://www.easa.europa.eu/en/document-library/easy-access-rules/easy-access-rules-air-operations-regulation-eu-no-9652012#:~:text=Revision%202023%20from%20December%202025,incorporates%20the%20following%20regulatory%20material%3A">www.easa.europa.eu/en/document-library/easy-access-rules/easy-access-rules-air-operations-regulation-eu-no-9652012#:~:text=Revision%202023%20from%20December%202025,incorporates%20the%20following%20regulatory%20material%3A</a>

## eVTOLs and other AAM aircraft, including propulsion systems

Date	20 December 2024
Title	NORAH 2
Description	The NORAH2 software prototype and noise hemispheres database has been developed to estimate the noise on the ground generated by rotorcraft operations.
Link	<a href="http://www.easa.europa.eu/en/newsroom-and-events/news/easa-publishes-new-rotorcraft-noise-model">www.easa.europa.eu/en/newsroom-and-events/news/easa-publishes-new-rotorcraft-noise-model</a>

## eVTOLs and other AAM aircraft, including propulsion systems

<b>Date</b>	4 November 2024
<b>Title</b>	EASA's Easy Access Rules for Small Category VCA
<b>Description</b>	<p>The Easy Access Rules for small category VCA include the requirements for the management of small category VTOL-capable aircraft (VCA).</p> <p>This EAR book consolidates the currently published material on VCA, formerly known as SC-VTOL (Special Conditions for Vertical Take-off and Landing), and its Means of Compliance (MOC), to simplify the use of VCA requirements</p>
<b>Link</b>	<a href="http://www.easa.europa.eu/en/document-library/easy-access-rules/easy-access-rules-small-category-vca">www.easa.europa.eu/en/document-library/easy-access-rules/easy-access-rules-small-category-vca</a>

## eVTOLs and other AAM aircraft, including propulsion systems

<b>Date</b>	30 July 2024
<b>Title</b>	CM ref. CM-21. A-004 Issue 01 on “Acceptable approaches for the certification of Electric/Hybrid Propulsion Systems”
<b>Description</b>	<p>The Certification Memorandum (CM) provides guidance on a type certification approach for Electric/Hybrid Propulsion Systems (EHPS). It was created due to the novel boundaries between aircraft, engine and propeller for EHPS and the challenges and complexities that come with using the typical methods for the systems' certification.</p> <p>This CM can be used as guidance for any EHPS used to provide or produce lift/thrust/power for crewed or uncrewed flights. It applies for both normal and emergency operations on all aircraft applications.</p>
<b>Link</b>	<a href="http://www.easa.europa.eu/en/document-library/product-certification-consultations/proposed-cm-ref-cm-21-004-issue-01-acceptable">www.easa.europa.eu/en/document-library/product-certification-consultations/proposed-cm-ref-cm-21-004-issue-01-acceptable</a>

## eVTOLs and other AAM aircraft, including propulsion systems

<b>Date</b>	12 June 2024
<b>Title</b>	Second Issue of the Special Condition for vertical take-off and landing capable aircraft
<b>Description</b>	<p>The European Union Aviation Safety Agency (EASA) has published the Second Issue of the Special Condition for vertical take-off and landing capable aircraft. According to EASA: "This new issue provides additional flexibility (e.g. increase of the 'Maximum Certified Take-off Weight') and better alignment with recently approved regulations (e.g. Commission Implementing Regulation 2024/1111) and means of compliance (MOCs) already publicly consulted.</p> <p>"An MOC associated with the new high-level performance-based requirement VTOL.2517 addressing 'Electrical Wiring Interconnecting Systems' will soon be subject to public consultation, along with an update of the current MOC VTOL.2555 for 'Recorders'.</p>
<b>Link</b>	<a href="http://www.easa.europa.eu/en/document-library/product-certification-consultations/special-condition-vtol">www.easa.europa.eu/en/document-library/product-certification-consultations/special-condition-vtol</a>

## Training for pilots, ground operations and MRO personnel

<b>Date</b>	9 July 2025
<b>Title</b>	Flight crew licensing
<b>Description</b>	<p>Flight Crew Licensing (FCL): AMC has been developed for Article 4f of Regulation (EU) No 1178/2011, providing guidance on VCA type rating training courses. This includes adaptations for innovative aircraft designs and a broader approach to theoretical knowledge by referring to various aircraft categories.</p>
<b>Link</b>	<a href="http://www.easa.europa.eu/en/newsroom-and-events/news/easa-steps-regulatory-framework-innovative-air-mobility">www.easa.europa.eu/en/newsroom-and-events/news/easa-steps-regulatory-framework-innovative-air-mobility</a>

## India – national

### AAM Policy, CONOPS and roadmaps

<b>Date</b>	13 February 2026
<b>Title</b>	Confederation of Indian Industry (CII) Advanced Air Mobility roadmap
<b>Description</b>	<p>Using a hypothetical Gurugram–Connaught Place–Noida International Airport corridor, the report examines time efficiency, airspace integration, infrastructure readiness, public acceptance and safety, while outlining tiered vertiport development, resilient energy systems and financing mechanisms, including leasing frameworks.</p> <p>The CII's phased roadmap begins with high-social-impact missions such as medical logistics and air ambulance services. The report proposes that air taxis initially operate from rooftops of hospitals and commercial buildings. When constructing vertiports, the confederation says focus should be on creating facilities that predominantly powered by renewable energy.</p> <p>CII also recommends that a specific AAM regulatory body is established within India's Directorate General of Civil Aviation to enable to rollout of services, which it says are needed to meet to increasing challenges of urban traffic congestion.</p>
<b>Link</b>	<a href="http://www.cii.in/PublicationDetail.aspx?enc=ESTt8YUfIU9TO9dPTkzvyGgRCXu/DOpk6x4zeMLv/k=">www.cii.in/PublicationDetail.aspx?enc=ESTt8YUfIU9TO9dPTkzvyGgRCXu/DOpk6x4zeMLv/k=</a>

### eVTOLs and other AAM aircraft, including propulsion systems

<b>Date</b>	12 September 2024
<b>Title</b>	Guidance material on type certification of vertical take-off and landing capable aircraft (VCA)
<b>Description</b>	<p>“This guidance material aims to provide comprehensive type certification requirement including the essential performance based airworthiness criteria for VCA,” says the document in its introduction. “In developing the guidance material global practise have been taken into consideration. This Advisory Circular is issued under the provisions of CAR-21 issued under Rule 133A of The Aircraft Rules...This airworthiness certification requirements applies to... electric Vertical Take-off and landing (VTOL) capable aircraft with pilot onboard with a maximum take-off weight up to 5700kg Intended to be used for Advanced Air Mobility (AAM)...This circular in the present form will not apply to lighter than air aircraft, Helicopter and Gyrocopter.</p>
<b>Link</b>	<a href="http://www.dgca.gov.in/digigov-portal/Upload?flag=iframeAttachView&amp;attachId=FY3J9Xy1O8UHYaw4SzGZZg%3D%3D">www.dgca.gov.in/digigov-portal/Upload?flag=iframeAttachView&amp;attachId=FY3J9Xy1O8UHYaw4SzGZZg%3D%3D</a>

## Vertiports and infrastructure, including charging

<b>Date</b>	5 September 2024
<b>Title</b>	National guidelines for vertiport design and operations
<b>Description</b>	The DGCA's guideline as based on ICAO circulars and include dimensions and operational requirements for both short-takeoff and landing aircraft and eVTOLs.
<b>Link</b>	<a href="http://www.dgca.gov.in/digigov-portal/Upload?flag=iframeAttachView&amp;attachId=ILjdZ7INp65fPYM0CaBlgg%3D%3D">www.dgca.gov.in/digigov-portal/Upload?flag=iframeAttachView&amp;attachId=ILjdZ7INp65fPYM0CaBlgg%3D%3D</a>

## India – cities and regions

### Tamil Nadu

#### AAM Policy, CONOPS and roadmaps

<b>Date</b>	6 October 2025
<b>Title</b>	Tamil Nadu low altitude economy roadmap
<b>Description</b>	The Indian state of Tamil Nadu is preparing an infrastructure roadmap for the low-altitude economy (LAE), according to an article in The New Indian Express (TNIE). The TNIE article says that a senior official told its reporters that the State Planning Commission has begun work on a strategy paper that will underpin the emerging sector. Tamil Nadu already has a testing centre for drones and is developing an ecosystem for beyond visual line of sight (BVLOS) training, testing and operations at Chettinad Airport under the Tamil Nadu Innovation Initiatives. TNIE reports that a new LAE master plan is expected to be unveiled at the Tamil Nadu Low Altitude Economy Forum 2025. “The roadmap is expected to outline vertiport development, drone corridors, training and certification pipelines, regulatory sandboxes and industry partnerships”, TNIE says
<b>Link</b>	<a href="http://www.newindianexpress.com">www.newindianexpress.com</a>

# ISO

## Vertiports and infrastructure, including charging

Date	June 2025
Title	ISO/CD 5491
Description	In a LinkedIn post, Sissel Thorstensen, head of the French delegation (AFNOR) to the ISO working group on vertiport standards, ISO/TC 20/SC 17/WG 1 – chaired by Jakub Wieczorkowski – gave an update on the group's progress in developing ISO/CD 5491, a wide-ranging international standard for vertiport infrastructure, from layouts to safety zones, scalable for real-world small eVTOL operations. "In coordination with SC 16/WG 6, we're aligning docking and interface standards across the drone/eVTOL ecosystem," she reported.
Link	<a href="https://www.linkedin.com/in/sissel-thorstensen-b8402223">www.linkedin.com/in/sissel-thorstensen-b8402223</a>

## Vertiports and infrastructure, including charging

Date	11 August 2022
Title	ISO standard 5015-2:2022
Description	ISO has published the standard 5015-2:2022 relating to Unmanned Aerial Systems (UAS) – Part 2: Operation of Vertiports for vertical take-off and landing (VTOL) unmanned aircraft (UA). The standard complements the generic ISO 9001 certification with regard to operations of vertiports serving vertical take-off and landing (VTOL) unmanned aircraft, with a mass from few kg to tons.
Link	<a href="https://www.iso.org/committee/5336224/x/catalogue/p/1/u/0/w/0/d/0">www.iso.org/committee/5336224/x/catalogue/p/1/u/0/w/0/d/0</a>