

AVIATION TRAINING

# Advanced Air Mobility Training and Operational Solutions



Envisioning the  
future of flight



## Ready to lead a new era in flight

With the emergence of Advanced Air Mobility (AAM), and the new sizeable workforce it requires, CAE sees a clean sheet opportunity to build new training and other operational solutions, from the ground up and at scale across markets worldwide. The industry has seen record-level activity across investments and purchase orders from established airlines and legacy operators in the aviation industry. CAE is leading the charge by applying and adapting its expertise and offerings towards tailored solutions for AAM operators and OEMs. We believe our evolutionary innovative technologies and methodologies will shift the training paradigm towards affordability and scalability, while ensuring safety stays paramount among the unique challenges presented by eVTOL aircraft.

### CAE is gaining momentum in the AAM market with leading OEMs

Five (5) leading OEMs are currently partnering with CAE in the development of various AAM products and services, from training and pilot provisioning, to engineering and certification support. Additionally, CAE is actively engaged with regulators and industry groups and released the industry's first white paper on eVTOL pilot training.

**BETA**

 **Joby**

**JAUNT**

 **VOLOCOPTER**

**VERTICAL** 

# Investing, innovating and engaging in what's next – now

## **Safe, smart, scalable end-to-end AAM solutions, tailored to your aircraft and operations**

- High-fidelity simulation and immersive technologies
- Student-centric pilot and technician training solutions
- Competency-based training courseware development
- Pilot and Technician workforce sourcing
- Aircraft Engineering Simulation and certification support
- Digital Twins for operational planning
- Next-Generation Flight Operation Solutions

## **The CAE difference is where and how we lead**

- Largest civil aviation training network that allows for close-to-base-training
- Unmatched engineering expertise from supporting 94% of new aircraft programs in the last 10 years
- Extensive experience in supporting OEMs in attaining necessary certifications and qualifications
- A suite of advanced training solutions with integrated data ecosystems and analytics
- As the largest Remotely Piloted Aircraft System (RPAS) trainer in the world, CAE has demonstrated experience working with highly automated aircraft
- Investments into innovation and new product development tailored for AAM include the CAE 700MXR Mixed Reality eVTOL Flight Simulator



# Immersive, high fidelity flight simulator tailored for the AAM market

CAE is leveraging upon decades of advancements in extended reality technologies to develop the CAE 700MXR Flight Simulator for the Advanced Air Mobility Market.

## Introducing the CAE 700MXR Flight Simulator

Mixed Reality is technology blending physical reality and the virtual world to develop new visualizations and environments. The CAE 700MXR emulates flight characteristics and operational programs for eVTOL aircraft, utilizing enhanced reality, high-precision hand tracking, and the accurate, tactile feel of the aircraft's main instrument panel. Along with the compact mini-motion platform and 360° Field of View visuals that deliver high-fidelity, physics-based simulation, the CAE 700MXR will revolutionize flight training for single-pilot operations in complex urban settings.

## Key Features

- CAE's level D aircraft & immersive environment simulation
- Unlimited out-the-window field of view
- High scene density immersive environment with AI-enabled air and land traffic built on high-resolution satellite imagery
- Integrated with exact replica flight deck components or flight deck LRUs for a fully representative tactile experience
- Real-time, predictive head tracking
- Compact motion platform
- Virtualized computing
- Mixed reality head-mounted display
- Combined audio and 3D sound simulation
- Optimized off-board Instructor Operating System (IOS)
- Individualized training feedback and Improved training curriculum using CAE Rise™ data-driven insights

## Benefits

- Ease of deployment and global scalability, due to reduced facility requirements and lower footprint
- Modular simulator architecture enables development in parallel to evolving aircraft program
- Optimized for single pilot operation
- Reduced operating costs
- Faster, more efficient and realistic training for eVTOL pilots
- Advanced data analytics to capture live maneuver-based insights for statistical analysis and enhanced pilot training experience





**Now begins a new age  
in aviation, creating  
unprecedented demand  
for uniquely trained pilots  
and technicians to ensure  
safe and efficient AAM  
operations globally.**

## About CAE

At CAE, we equip people in critical roles with the expertise and solutions to create a safer world. As a technology company, we digitalize the physical world, deploying software-based simulation training and critical operations support solutions. Above all else, we empower pilots, cabin crew, airlines, and defence and security forces to perform at their best every day and when the stakes are the highest. Around the globe, we're everywhere customers need us to be with more than 13,000 employees in approximately 250 sites and training locations in over 40 countries. CAE represents more than 75 years of industry firsts—the highest-fidelity flight and mission simulators as well as training programs powered by digital technologies. We embed sustainability in everything we do.

**Today and tomorrow, we'll make sure our customers are ready for the moments that matter.**

[www.cae.com](http://www.cae.com)

### Contact us

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Reach out to our Director of Advanced Air Mobility (AAM) to find out more about CAE Training Solutions

[www.cae.com/civil-aviation/aviation-training/advanced-air-mobility/](http://www.cae.com/civil-aviation/aviation-training/advanced-air-mobility/)