Transforming mobility with eVTOL

Vertiport infrastructure solutions
The future is about to take off

Electric vertical take-off and landing (eVTOL) aircraft are set to kickstart a new era of urban air mobility. Our comprehensive solutions will help vertiport developers, airports, eVTOL original equipment manufacturers (OEMs), infrastructure owners and operators (IOOs), and federal agencies to advance eVTOLs while lowering emissions, noise and costs — and safely and efficiently moving people in these environments. Our solutions include:

- **Vertiport design**
  Combining traditional passenger terminal design and logistics expertise to new urban air mobility (UAM) technologies

- **System impact analysis**
  Understanding the broad impact of eVTOL on the overall system

- **Infrastructure flexibility**
  Adapting existing systems to support eVTOL

- **Network planning**
  Scaling efficient transportation across networks

- **Modularity**
  Creating scalable solutions that can prefabricated

- **Technology**
  Integrating eVTOL charging technology with existing infrastructure

- **Multimodal transport integration**
  Planning for eVTOL as part of a larger system

- **Aviation planning**
  Passenger processing, air space analysis, procedure and route planning

We are partnering with aircraft manufacturers and transportation innovators as they rapidly advance new eVTOL technology.

AECOM and Ferrovial have partnered to design a network of vertiports connecting strategic locations in major Florida cities
Delivering vertiport infrastructure

It’s not just about airports — infrastructure owners, developers, logistics operators and eVTOL manufacturers must work together to design infrastructure to support the development of the UAM industry. Here’s how we can help:

### Airports
- eVTOL terminal design and engineering
- Passenger movement modeling
- eVTOL concept of operations (ConOps)
- Charging infrastructure design

### Private developers/logistics operators
- Greenfield vertiport or modification of existing structures
- Aircraft movement modeling
- Last mile planning
- Charging infrastructure design

### Surface Infrastructure Owners and Operators (IOOs)
- Vertiport feasibility studies and economic studies
- Airspace analysis
- People movement logistics

### eVTOL manufacturers
- Concept development support and scenario planning
- Vertiport modularity planning
- Local mobility and transportation planning
- Charging infrastructure planning services

### Leading the industry

As leaders in vertiport design, UAM, zero emissions technologies and transportation planning, our team is advancing the adoption of new mobility technologies.

- Created a vertiport model that aligns with an owner/operator proforma and eVTOL operational metrics
- Charging-as-a-service: a unique delivery model that accelerates charging infrastructure deployment to realize benefits early, reduce risks, and optimize operational costs
- Our proprietary tools can provide vertiport developers and eVTOL owners/operators with support with demand and passenger models inclusive of net carbon reduction to drive revenue
- Founders of industry organizations that promote alternative, connected mobility solutions
- Global leader in the integration of direct-current (DC) fast charging infrastructure with utilities
- Driving a net zero approach to UAM

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About AECOM

AECOM is the world’s trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle — from planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical expertise and innovation, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a Fortune 500 firm and its Professional Services business had revenue of $13.3 billion in fiscal year 2021. See how we are delivering sustainable legacies for generations to come at aecom.com and @AECOM.

Contacts

Elisabeth Bernitt
Senior Vice President, eVTOL Practice
elisabeth.bernitt@aecom.com

John Sulsona
Aviation Practice Lead for eVTOLs
john.sulsona@aecom.com

Suzanne Murtha
VP Connected and Automated Technologies
eVTOL Transportation Integration
suzanne.murtha@aecom.com