

# eVTOL AIRCRAFT

**ELECTRIC VERTICAL  
TAKE-OFF AND LANDING**



**ON-DEMAND URBAN AIR TRANSPORTATION VEHICLE**

 **Aurora**<sup>®</sup>  
FLIGHT SCIENCES

# eVTOL Aircraft

## ELECTRIC VERTICAL TAKE-OFF AND LANDING

### Infrastructure

- Aurora's eVTOL aircraft will provide on-demand transportation to minimize long commutes due to heavy traffic and urbanization in populated areas.
- The infrastructure plan includes urban "vertiports" for passenger boarding and vehicle servicing.
- eVTOL aircraft will operate a "hub-to-hub" service between designated vertiports.
- The first test bed flights are scheduled to begin in 2020 in Dallas, Texas, USA and Dubai, The United Arab Emirates.



*Artist concept of eVTOL aircraft on vertiport landing pad.*

### Operational Overview

- The eVTOL aircraft includes eight lift rotors for vertical takeoff and cruise propeller and wing to transition to high-speed forward cruise.
- At destination hub, the aircraft transitions back to rotor-borne flight for vertical landing.
- Fully electric operation decreases or eliminates emissions and noise pollution for a quieter flight.
- While initially operated with a safety pilot, the eVTOL aircraft is designed for fully autonomous operations.
- The flight capability for eVTOL aircraft is three times more efficient than a multi-copter aircraft.



*Subscale vehicle demonstrator of Aurora's eVTOL aircraft achieves successful test flight, incorporating transition from vertical take-off to forward cruise.*

### Capabilities

- The eVTOL will be used for short-haul transport of passengers or cargo.
- Current configuration allows for two passengers including the pilot plus luggage.
- Offerings will include specific configuration options to address mission requirements for civil and military operations.

#### U.S.

Phone: 703-369-3633

BusinessDevelopment\_Sales@aurora.aero

#### International

Phone: +41 41 248 00 40

BusinessDevelopment@aurora-aero.ch

9950 Wakeman Drive

Manassas, VA 20110

Phone: 703-369-3633

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**WWW.AURORA.AERO**