



ADVANCED AIR SOLUTIONS

AIRO GROUP HOLDINGS, INC.

May 2024

Company Divisions

AIRO is a multi-faceted air mobility, autonomy & aerospace platform with differentiated technologies and capabilities that dynamically address high growth market trends across the entire aviation & aerospace ecosystem

Uncrewed Air Systems

- The UAS Drones division provides professional UAS platforms and services often used within civilian and military applications
- Areas of application include
 - Reconnaissance, surveillance, inspection, and environmental analysis
- The total addressable market for UAS is projected to increase to ~\$108B by 2035⁽¹⁾



Value-Add
Drone
Services

Training

- The Training division provides professional training services within both civilian and military sectors
- Areas of application include
 - Civil pilot training, military adversary air training services, aircraft leasing, global aviation consulting services
- The total addressable market for Training is projected to increase to ~\$2B by 2024⁽¹⁾



Extensive
Civil and
Military Reach

THE AIRO GROUP

Advanced Avionics

- The Advanced Avionics division provides electronic systems used on aircraft
- Avionics Platform for Electric Air Mobility
- Communications, navigation, monitoring, flight-control systems, AI, collision-avoidance systems, radar or electro-optics
- The total addressable market for Advanced Avionics is projected to increase to ~\$90B by 2030⁽¹⁾



Mission-Critical
Technologies

Electric Air Mobility

- The Electric Air Mobility division will provide both passenger transportation and cargo transportation services
- Areas of application include:
 - Scheduled air transit, automation of intra-logistics, cargo delivery, supply of medical goods, and military missions
- The total addressable market for eVTOL and Cargo Transport is projected to increase to ~\$30B by 2030⁽¹⁾



Innovative
Aircraft

Key Differentiators



Innovative Technologies



Strong addressable
market trends in UAS,
eVTOL, Avionics



Green Technology base

⁽¹⁾ Roland Berger proprietary market analysis, 2021

Uncrewed Air Systems (UAS) Division

AIRO Group is well positioned to leverage its UAS Division to capitalize on the rapidly growing addressable Aviation & Aerospace market



Drones – Reliance on unmanned drones within the military and civilian markets expected to continue to expand. Company has sold a significant number of RQ-35 Drones to NATO countries in support of Ukraine and has an extensive order backlog.



Drones as a Service – Around the world, opportunities for the use of unmanned drones are expanding, including mapping, surveying, inspection, localization, and many others. All DaaS services utilize A.I.



Cargo Delivery – There are numerous opportunities to shift autonomous cargo drone systems to expand the reach of air freight transportation, final mile delivery and parcel delivery under existing beyond the visual line of sight (BVLOS) rules.



AIRO_LINK – A data centric mesh network to support the increasing drone flights performed in BVLOS

(1) Roland Berger proprietary market analysis, 2021

Total Addressable Market⁽¹⁾

\$108B⁺

Global Drone Market By 2035

\$44B⁺

Global Drone Delivery Market By 2035

~9%⁺

Drone Market Annual Growth Through 2035

Uncrewed Air Systems - Drones

Commercial and Military UAS



- **RQ-35 Heidrun** is a battle-proven, fixed wing mini UAV for Low Altitude Close Range (LACR) Intelligence, Surveillance, Reconnaissance missions
- In service in the Ukraine conflict
- Purchased by multiple NATO countries
- Remote EO/IR Observation platform with 100 minute flight time
- Wingspan 1.650 meter, Takeoff weight 2.3kg



- **DS-1 Minotaur** is an Autonomous Quadcopter Drone with Mission Ready Solutions
- AI-enabled, fully autonomous for ISR missions and infrastructure inspections in GPS/RF denied environments
- Purchased by US Government
- Remote EO/IR Observation platform with 24 minute flight time
- 0.48M length, Takeoff weight 1.7kg

Drones as a Service



- Extensive experience in UAS infrastructure inspections for fortune 500 companies
- Flat fee charged per day for UAS, Pilot, Observer on-site
- Real-time AI allows for imagery and data to be processed real time and delivered to companies via multiple web-services platforms
- Significant cost savings over traditional methods such as manned and helicopters

Cargo Operations



- Deliveries of critical/time sensitive products and supplies such as medical (bloods, medicine, radiologicals), factory parts, etc..
- Demonstrated worldwide need for service - current FAA, TC, CAA, DGAC, EASA regulations all allow for this type of delivery
- Larger deliveries to be performed by our Jaunt Journey scaled platform

Training Division – Addressing Global Pilot Shortages

Our Training Division is addressing the need for new pilots as well as assisting military requirements at a very cost-effective rate

Pilot Shortage



- Massive Pilot shortage is impacting all aspects of Air Travel and categories of aircraft with major airlines harvesting all other levels of aviation from general aviation, corporate, regionals⁽¹⁾
- This is expected to be a long-term problem for the industry
- Increasing pilot shortage should allow training experts to absorb industry growth
- Over 600k new pilots need to be trained by 2040⁽¹⁾
- Introduction of the Urban Air Mobility (EVTOL) industry expected to require over 60k new pilots by 2028⁽¹⁾
- We are implementing FAR 141 certificated flight school. Future growth to expand through additional flight school and aircraft acquisitions
- We have access to large group of Certified Flight Instructors
- We will train Airline, UAM, and drone pilots



Military Training



- We are an approved, mandated participant in the US DoD program offering up to \$8.4B+ Indefinite Delivery/Indefinite Quantity training opportunities through 2024, and extendable until 2029.
- Primarily Close Air Support (CAS) training
- Current demand outstrips supply of military training providers
- As fleet size increases, ability to bid for more flight time increase

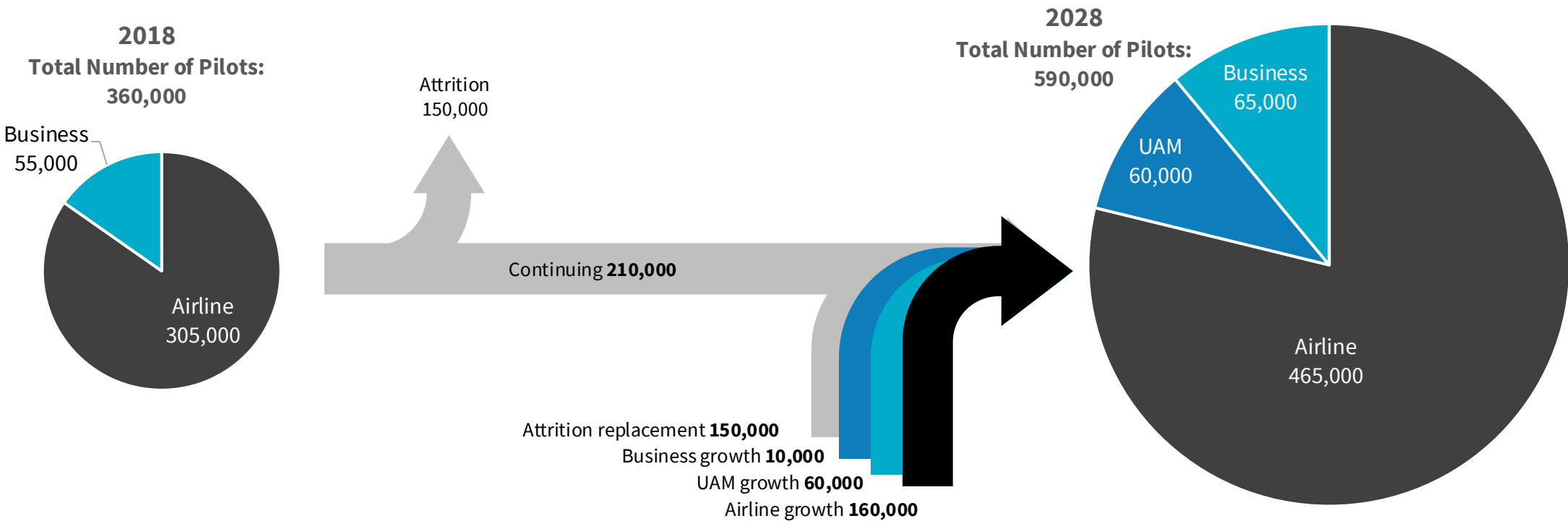
Our extensive experience



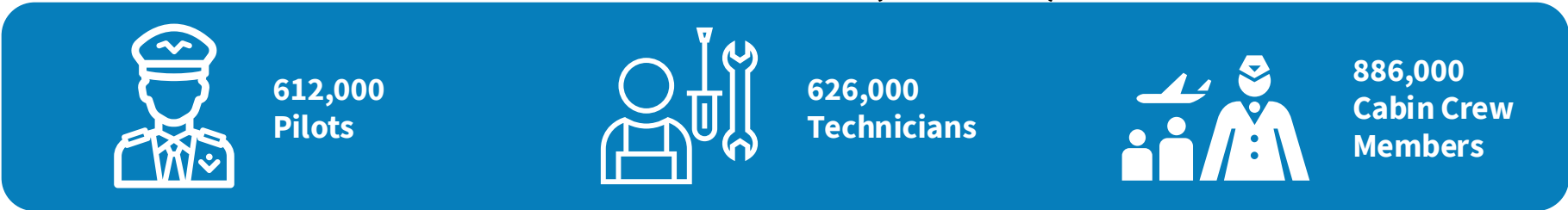
- Industry leading and FAA experienced management team
- Tens of thousands of flight hours
- Former Senior USAF Officers in leadership positions
- Former Senior Airline Flight Ops Executives
- Strategic relationships with DOD officials
- Large network of current and recent Air Force, Navy, and Marine Corps pilots

Significant Market Tailwinds in Aviation Training Demand

Growing demand across the aviation industry, including Airlines, Urban Air Mobility, and Uncrewed Air Systems will accelerate demand for pilots



New Personnel Demand (2021 – 2040)



Advanced Avionics Division

Our Advanced Avionics Division develops affordable, interoperable products, technologies and partnerships that make information from the aviation data stream relevant to users through all phases of the flight cycle. Complete in-house design-certification-manufacturing. **Over 600 FAA certifications** completed.

EVOLUTION FLIGHT DISPLAY SYSTEM

Glass panel Primary Flight Displays and Multi-Function Displays

- ✓ Integrated Display System
- ✓ Worldwide install base of 14,000 aircraft
- ✓ Over 600 aftermarket dealers worldwide
- ✓ Strong line-up of products including autopilot interfaces, interface boxes, synthetic vision, and Angle of Attack (AOA) indicators
- ✓ Multiple cross-selling opportunities across AIRO
- ✓ FAA STCs allow installation on more than 600 different civil aircraft makes/models



CONNECTED PANEL™

Smart bridge between installed avionics systems & aviation apps

- ✓ Applications from General Aviation to Air Transport Category aircraft
- ✓ Versatility of data modes available including Wi-Fi, cellular, and satellite
- ✓ Strong patents
- ✓ Able to receive data from almost any panel-mounted GPS navigator
- ✓ OEM relationships with Pilatus and Honeywell/UPS



NexNav

GPS solutions for manned and unmanned aircraft applications

- ✓ Exclusive global licensed technology acquired in 2015
- ✓ Direct customers include BAE, FreeFlight, Genesys, IS&S, Trig
- ✓ GNSS approved by FAA and other civil aviation authorities for aircraft use
- ✓ Also installed on manned and unmanned military aircraft



Electric Air Mobility (EAM) Division

AIRO is well positioned to leverage its portfolio of leading companies advancing the Aviation & Aerospace market to capitalize on this growing addressable market



Cargo – There are numerous opportunities to develop autonomous cargo aircraft systems to expand the reach of air freight transportation



Electric Passenger Transport – UAM operators may one day have bigger fleets and offer more flights per day than the worlds largest airlines



Emergency Response – Around the world, unmanned aircraft are helping solve the medical industry's most difficult challenges, such as delivering medical supplies



Military – There exists the opportunity to produce a conceptual framework that maximizes the trade space of speed, range, survivability, payload, size, and flexibility to carry out missions across the full spectrum of DoD missions

Total Addressable Market⁽¹⁾

\$115B⁺

Annual US Market By 2025

\$1T⁺

Addressable Market By 2040

\$9T⁺

Addressable Market By 2050

(1) Aijaz Hussain & David Silver, *Advanced air mobility; Can the United States afford to lose the race?*, Deloitte Insights; MORGAN STANLEY RESEARCH, "eVTOL/Urban AIR Mobility TAM Update: A Slow Take-Off, But Sky's the Limit" (May 6, 2021).

The Jaunt Journey Aircraft

Innovation and advanced technology, combined with AIRO's incredible engineering capabilities, facilitated an aircraft that ties together the best attributes of fixed wing aircraft and rotorcraft, utilizing the most efficient design for vertical take off and landing; a single main rotor⁽¹⁾

Significant “de-risking” eVTOL advantages over competition:

- ✓ Certification by Transport Canada – expected faster path
- ✓ Manufacturing in Quebec
- ✓ Uses existing CAR 527/529 FAR 27/29 rules
- ✓ Uses our own avionics
- ✓ Unique supplier risk sharing

**Rotor And Wing Enable a Safe
Landing In Total Power Loss**

**Full Fly-By-Wire Flight Control System
With Advanced Flight Controls**

**Tilting Mast To Maintain a Level,
Comfortable Flight Experience**

**Advanced Thermoplastic
Structural Design**

**Cruise @ 175 MPH
Single Pilot, Four Passengers**



Safe



Efficient



Quiet



Green

Aircraft Orders* To Date (through February 2024)



497

Orders* valued
at **\$1.2B****


 **BLADE**
250

 **REDWINGS**
20

MOVIATION
URBAN AIR MOBILITY
50

 **HELIGO**
CHARTERS PVT. LTD.
15

Vertiko
Mobilité
71

 **MINTAIR**
40






 **flapper**
25

WALLE
20

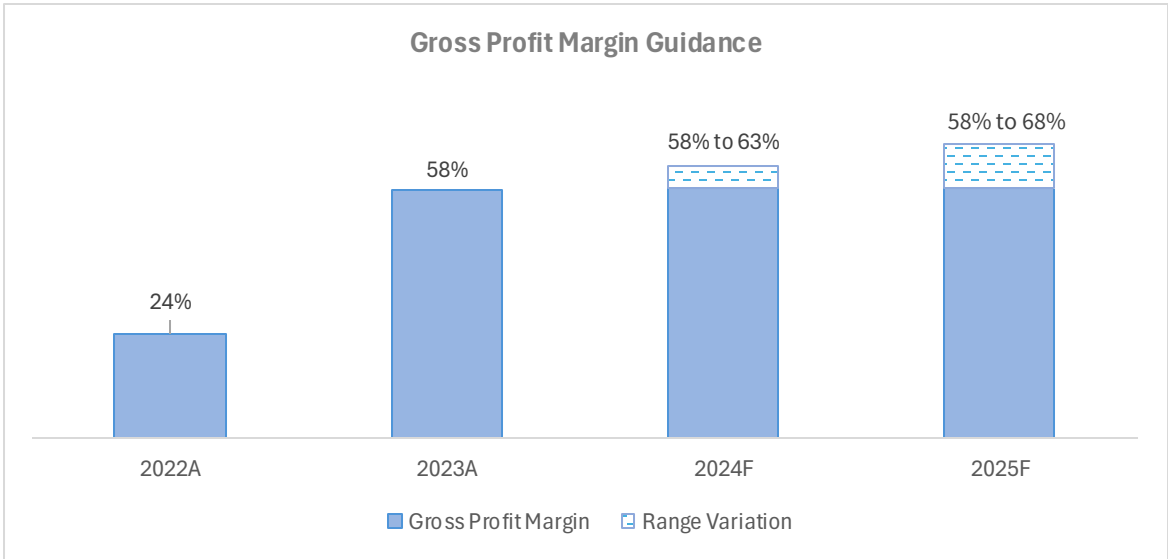
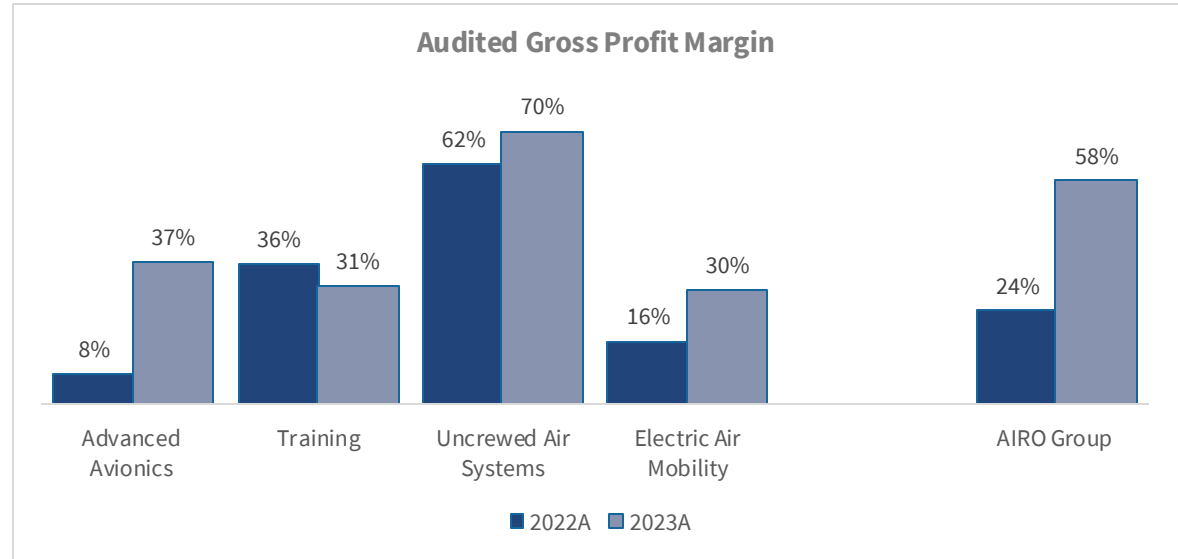
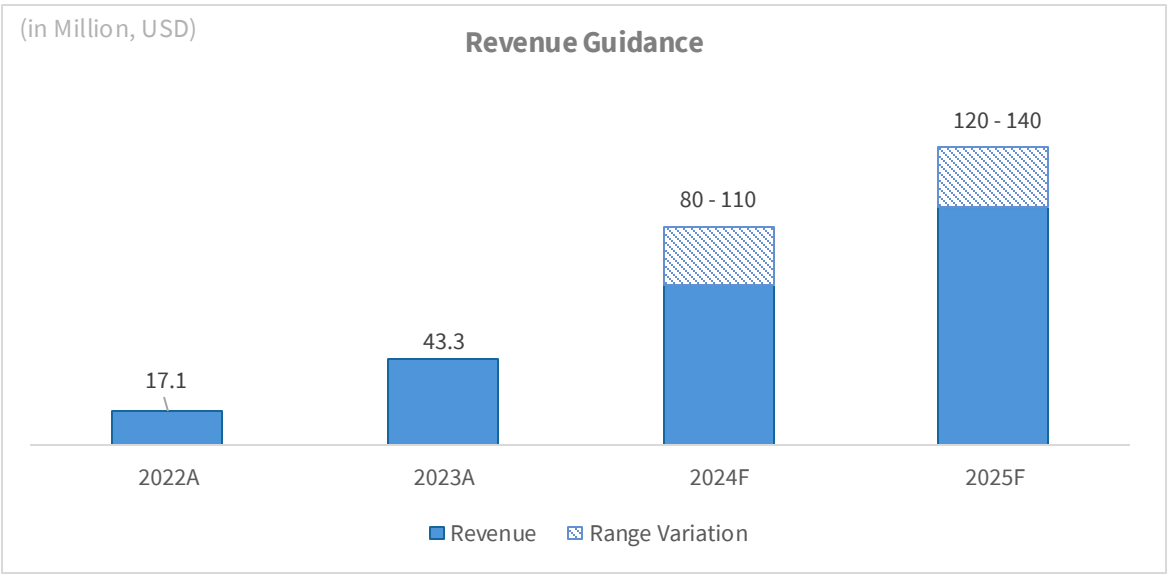
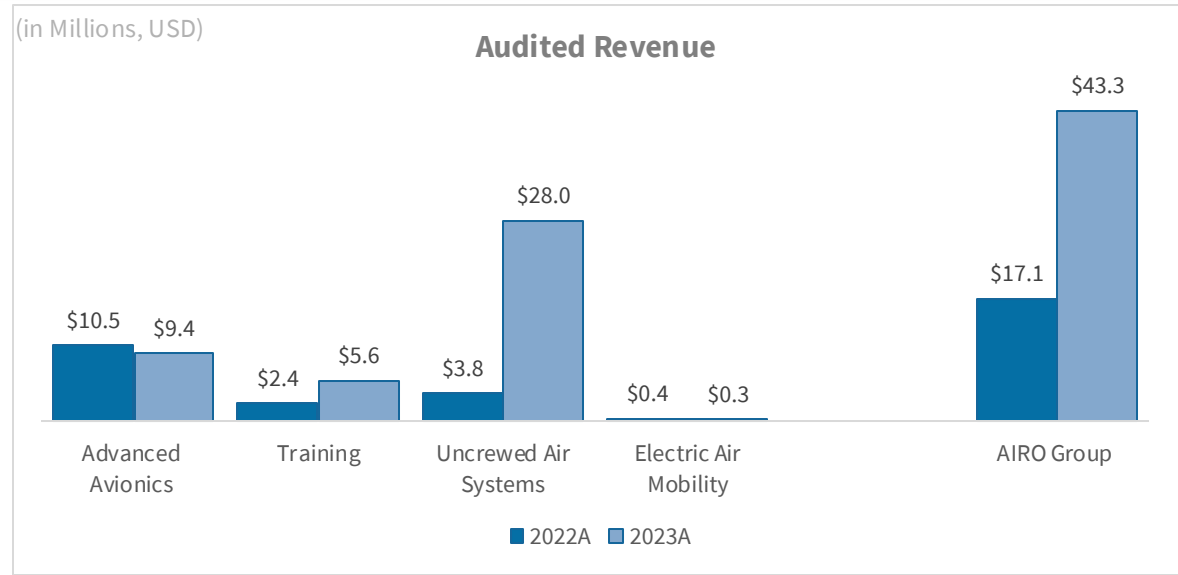
 **Global Vectra Helicorp**
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** Estimated orders based on nonbinding, executed Letters of Intent*
***Not including after market support that is expected to double the revenue associated with the sale*

Valuation Comps

Company	Symbol		Market Capitalization (As of July 29, 2024)
Joby Aviation, Inc.	JOBY		\$4.4B USD
AeroVironment, Inc.	AVAV		\$4.9B USD
EVE Air Mobility	EVEX		\$0.9B USD
Vertical Aerospace Ltd	EVTL		\$204.9M USD
Archer Aviation, Inc.	ACHR		\$1.5B USD

Financial Summary



¹ Disclosure: Growth projections are contingent on the company becoming publicly listed by July 1, 2024, following closing of AIRO's business combination with Kernel, and the timely receipt of capital upon transaction closure. Variations in the expected timeline for these events could materially affect our financial forecasts.