

## Advanced Air Mobility

---

### Eve Air Mobility unveils a completely redesigned eVTOL

Eve unveiled a cabin mockup and an entire new aircraft design for their eVTOL. The 4+1 cabin showcases the significant in-house expertise in UX and production-inspired materials. The new aircraft remains Lift + Cruise but employs a more conventional aero configuration.

#### OUR TAKE

We think we have seen the final, certification configuration of the Eve eVTOL. We noticed a lack of control surfaces on the wing and an amazing level of attention paid to the cabin design - you can put your carry-on behind your seat to increase the baggage capacity.

### Supernal Unveils eVTOL Cabin Concept

Supernal unveiled a concept mockup of their butterfly-inspired eVTOL cabin configuration, drawing on their parent, Hyundai Motor Group, vast automotive experience, capabilities and materials. The ergonomic interior sports a light-weight design made of forged carbon fiber.

#### OUR TAKE

The automotive ergonomic design, sustainability and large scale production capabilities of the parent group will be a competitive differentiator for Supernal. Plus, we might see the large organic-looking door in the production vehicle.

### Vertical and Virgin Atlantic consortium to demonstrate AAM ecosystem

A British team led by Vertical Aerospace and Virgin Atlantic was awarded by the UK Government £9.5 (\$11.4) million to test by spring 2024 an AAM ecosystem composed of urban and regional routes, with physical and simulated test flights.

#### OUR TAKE

This is one of the largest AAM ecosystem tests planned to date. We would have liked to see a more aggressive schedule as by 2024 there could be already commercial operations ongoing in other parts of the world.

### Lilium partners with Bristow Group on maintenance for their eVTOL

Lilium and the Bristow Group signed a strategic partnership that will see the helicopter operator option 50 Lilium Jets as well as cooperate on the development of a maintenance program to support the eVTOL operations in the US and Europe.

#### OUR TAKE

The Bristow Group signed another deal for AAM vehicles, their sixth, a clear sign of their interest in the sector and a strategic choice of not picking a winner. It is interesting to see if they will expand their Part 145 services to other OEMs.

## The Rest of Aerospace

---

### Boom Supersonic unveils completely redesigned aircraft

Boom unveiled a completely redesigned Overture supersonic airliner. The new configuration moves to four engines, a different aero configuration and increased seating of 65-80 passengers. The company unveiled a partnership with Northrop Grumman on military derivatives.

#### OUR TAKE

The aircraft does not have an engine yet and propulsion partner Rolls-Royce seems not to be interested in designing a clean sheet engine. Furthermore, with the X-59 demonstrating in the same timeframe boomless supersonic cruise, what will be the market for Overture?

## Advanced Air Mobility

---

### Rolls-Royce and Hyundai partner on AAM electric propulsion and hydrogen fuel cells

Rolls-Royce and Hyundai partnered on the technology and product development and industrialization of all-electric and hydrogen fuel cell power and propulsion systems for Hyundai's AAM Division. An important milestone will be a joint fuel-cell electric demonstrator in 2025.

#### OUR TAKE

Hyundai/Supernal interest in both urban (UAM) and regional (RAM) air mobility will require a portfolio of propulsion systems for their UAM eVTOL being developed in the US and hydrogen-powered RAM aircraft that Hyundai AAM is developing in Korea.

### Halo Aviation launches Eve UATM SW solution

Eve Holding is developing several parts of the AAM ecosystem, in addition to the eVTOL vehicle. One of the products is their Urban Air Traffic Management (UATM) SW solution that found its launch customer with Halo Aviation.

#### OUR TAKE

Eve is leveraging their Embraer expertise to develop the ATC part of the AAM ecosystem, allowing them to offer comprehensive solutions to their customers, like Halo that also signed an LOI for 200 Eve eVTOL.

### Joby completes two important milestones towards certification

Joby Aviation quietly announced on social media the completion of the manufacturing of the tail of the first production aircraft, using tooling created with Toyota. Also, a third-party picture showed that the company has started piloted flight tests.

#### OUR TAKE

Certification is the big upcoming milestone for AAM OEMs. Joby is the first OEM to manufacture a part destined for one of their production conforming aircraft. In addition, the start of piloted flights is the next step towards FAA for credit flight tests.

### Vertical and Babcock cooperate on new VX4 variants

Vertical Aerospace partnered with Babcock International, an aerospace, defense and security company, to explore new use cases like EMS, cargo and military. The companies will also partner on the development of MRO capabilities.

#### OUR TAKE

While air taxi is the use case that eventually will make up most of the AAM market, there are other use cases, like EMS and cargo, that will have a higher CAGR in this decade. Vertical joins other OEMs in exploring these variants.

## The Rest of Aerospace

---

### CFM and Airbus to test open rotor RISE engine on A380 testbed

CFM International and Airbus announced that, in the 2026 timeframe, they will flight-test the CFM RISE open rotor prototype engine on one of the Airbus' A380 testbeds. This is the second A380 demonstrator program, following another one carrying a hydrogen-fueled GE Passport engine.

#### OUR TAKE

The demands for reduced emissions and fuel consumption led CFM to launch an open rotor demonstrator that could develop into a new engine in the 2030-35 timeframe. This agreement allows Airbus to test first-hand the new engine technology, that might find its way into their next aircraft.