

LEADING THE AIR MOBILITY REVOLUTION

ICAO UAS WORKSHOP
MEXICO

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Our Mission



Enable *safe, autonomous and eco-friendly*
air mobility for everyone

US\$1.5Tn TAM by 2040*

- Autonomous Urban Air Mobility TAM from Morgan Stanley Research titled "Flying Cars: Investment Implications of Autonomous Urban Air Mobility" dated December 2, 2018.
- TAM represents Total Addressable Market.

Who We Are (UAM Ecosystem)



We are an Urban Air Mobility Platform Operator

Innovative AAV Commercial Solutions

Air Mobility

Passenger Transportation



- Short- to medium-distance air transportation solutions and services employing passenger-grade AAVs

Logistics



- Provision of logistics solutions and services, with a focus on urban air deliveries enabled by AAVs, both passenger-grade and non-passenger-grade

Smart City Management



- Encompass traffic management, public safety, emergency response, disaster relief, and forest fire inspection using integrated AAV solutions on a centralized command-and-control platform

Aerial Media



- Manage and choreograph a fleet of small AAVs into a series of moving images

Our Technology Platforms

Autonomous Aerial Vehicles (AAVs)

Comprehensive portfolio of high-performing AAVs for a multitude of applications

Passenger-grade AAVs



**EHang 216
(Two seats)**



**EHang 216
(Firefighting)**



**EHang 116
(One seat)**



**EHang 216
(Logistics)**

Non-passenger-grade AAVs



Falcon B



GD 2.0X



VT20/V100



AAV OPERATING PLATFORM

Operating systems and extended infrastructure that facilitate management and operations of AAVs at scale

AAV Operating Systems



Command-and-control Centers



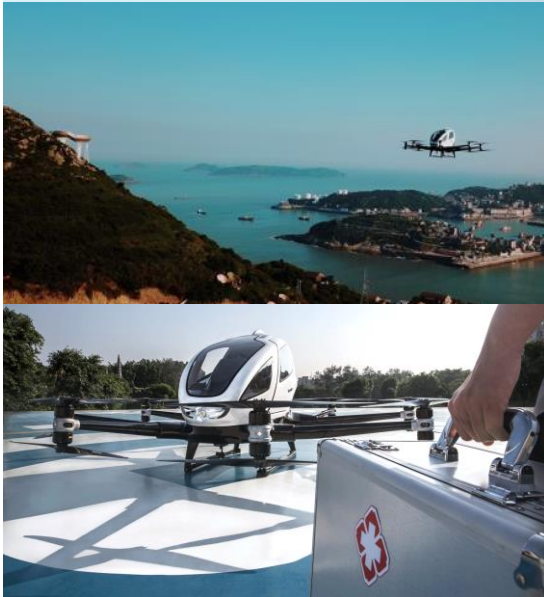
Landing Pads and Charging Systems



Automated Urban Air Mobility – Some Use Cases

1

Passenger Transportation



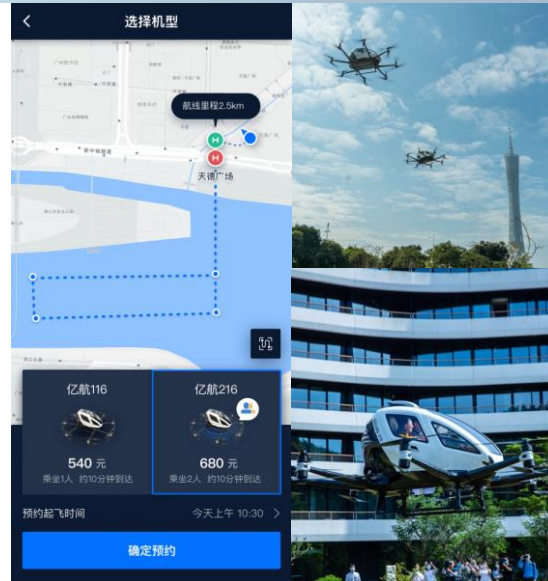
Air Tourism and sightseeing

- Monumental tours
- Access to hidden spots (no roads)
- Natural Parks visits (0 emissions)
- Access to handicapped tourists

Emergencies

- Air taxi to hospital and evacuation
- Medical assistance (doctor and meds)
- Ambulances (pick up evacuation)
- Fire fighting

2



City Shuttle

- Airport to hot spots (hotels, downtown, events, corporations)
- Air corridors for intermodal transport within hubs

Air Taxi

- Ad hoc route (prior authorisation)
- Express VIP transport shuttle

3

Logistics



Heavy lift logistics

- Transport between company hubs
- Express Delivery of large parcels
- Mines and remote spots
- Air corridor for first mile logistics
- Congested Routes

Emergencies (EMS)

- Health supplies (meds, lab tests, blood, defibrillator)
- Organs express transport

4



Offshore

- Support to offshore oil platforms
- Wind maritime parks maintenance
- Sea ports (automated containers)
- Direct transport of spares and other equipment to ships

Delivery

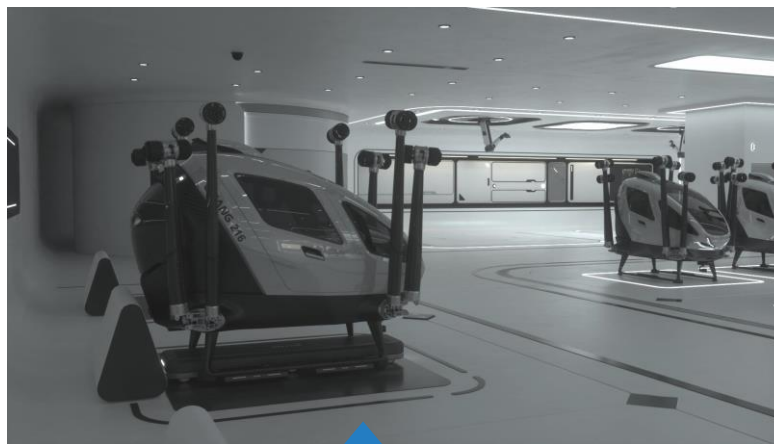
- Urban air corridors for express routes
- Company courier with automation
- Last mile delivery of goods

Infrastructure

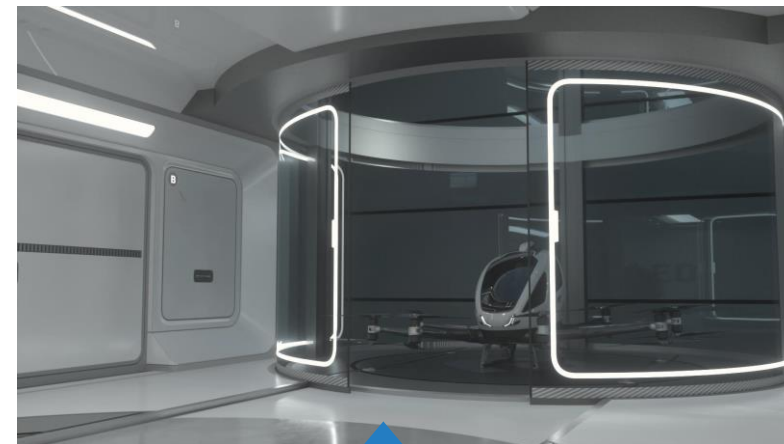
E-Port (Vertiports): The core infrastructure in the air traffic system. After the filing is completed, it becomes an air traffic hub, achieving point-to-point connection, and forming an air Mobility service network



City Vertiports / Landing Pads



Intelligent Charging Platforms



Departure Area



Water



Transport Hubs

Example of Passenger-grade AAV EH216



**Safe and Reliable
(full redundancy)**



Autonomous and Intelligent (Autopilot, FCU and BMS)



Centralized Management Capable



**Connected (4G-5G)
Precise GNSS position**



**Eco-friendly (electric,
0 CO2 emissions)**

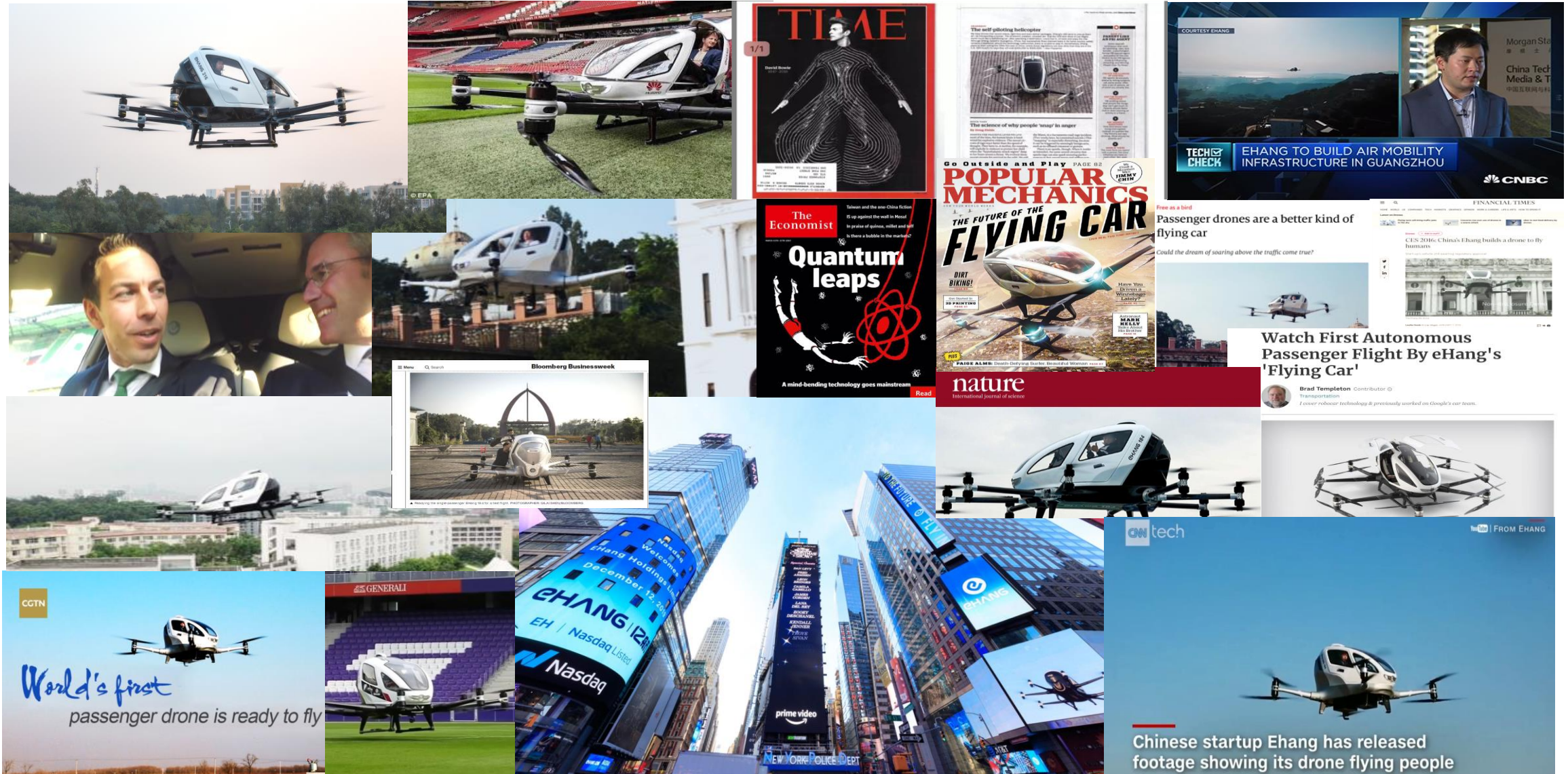
Our World Flight Tour Footprint of Passenger-grade AAVs

10 Countries 43 Cities



* Update as of December 31, 2020

Passenger Flights and International Coverages



Worldwide Attentions and Cooperation



News Report by China Central Television



CAAC (Civil Aviation Administration of China)



Sevilla, Spain



EASA, CAAC



U.S.



Canada



Austria



Germany



Spain (National Police)



Aeroports Catalunya, Lleida



Amsterdam, Netherlands



Zaragoza, Spain

Ehang EU SESAR VLDs Projects



- Participation in main demo (AMU-LED, GOF2, SAFIR-MED, CORUS Xuam, Airmour....) flights in >8 sites (Santiago de Compostela, Cranfield, Rotterdam, Paris, Tartu, Antwerp, Graz, Helsinki, ...)
- Urban Air Mobility (UAM) refers to the provision of mobility services in urban environment using air vehicles.

These vehicles encompass everything:

- 'Flying taxis/ambulances': EH216
- Logistics autonomous UAVs (AAVs): Falcon L400
- Manned helicopters, as currently flown (coordination)
- Small inspection and **delivery drones** (Fixed wing and Multicopter)
- **Use Cases: Air taxi, Cargo operations, Infrastructure inspection, Cadaster, Surveillance (Coast, border), Delivery of goods & medical supplies, Emergency Services (first aid supplies, meds, ..), Search and Rescue, Offshore...**
- The whole **U-space environment** will need to **integrate safely** with manned aviation and air traffic control.
- New ConOps, regulations and standards with **existing and new technologies**.





UAM-FLY INTO THE FUTURE