ADVANCED AIR MOBILITY FUTURE OF TRANSPORT


JULY 1957
35 CENTS
POPULAR MECHANICS
MAGAZINE
WRITTEN SO YOU CAN UNDERSTAND IT
HILLER'S AERIAL SEDAN
—your flying car for 1967—page 74
Stand by for Satellite Take-Off!
Owners Report: OLDSMOBILE
HOW TO OUTSMART HOUSEBREAKERS


Go Outside and Play PAGE 82
We Climb a Mountain With JIMMY CHIN
POPULAR MECHANICS
HOW YOUR WORLD WORKS
THE FUTURE OF THE
FLYING CAR
(FOR REAL THIS TIME! MAYBE!)
DIRT BIKING!
PAGE 99
Get Started In 3D PRINTING
PAGE 41
Have You Driven a Winnebago Lately?
PAGE 52
Astronaut MARK KELLY Talks About His Brother
PAGE 16
PLUS
PAIGE ALMS: Death-Defying Surfer, Beautiful Woman PAGE 67

Multicopter Platform

EHANG | 亿航
EH | Nasdaq Listed

- Panoramic windshield for wide vision
- 18-inch luggage trunk
- Coaxial propellers designed for safe and strong power
- Gull-wing doors
- Proprietarily-developed HPD motor
- Downward-facing visual system to guide landing
- Foldable arms to minimize space during storage
- Multi Li-polymer batteries and battery management system

EH216
(Two seats)

EH116
(One seat)

EH216F
(Firefighting)

EH216L
(Logistics)


CCB

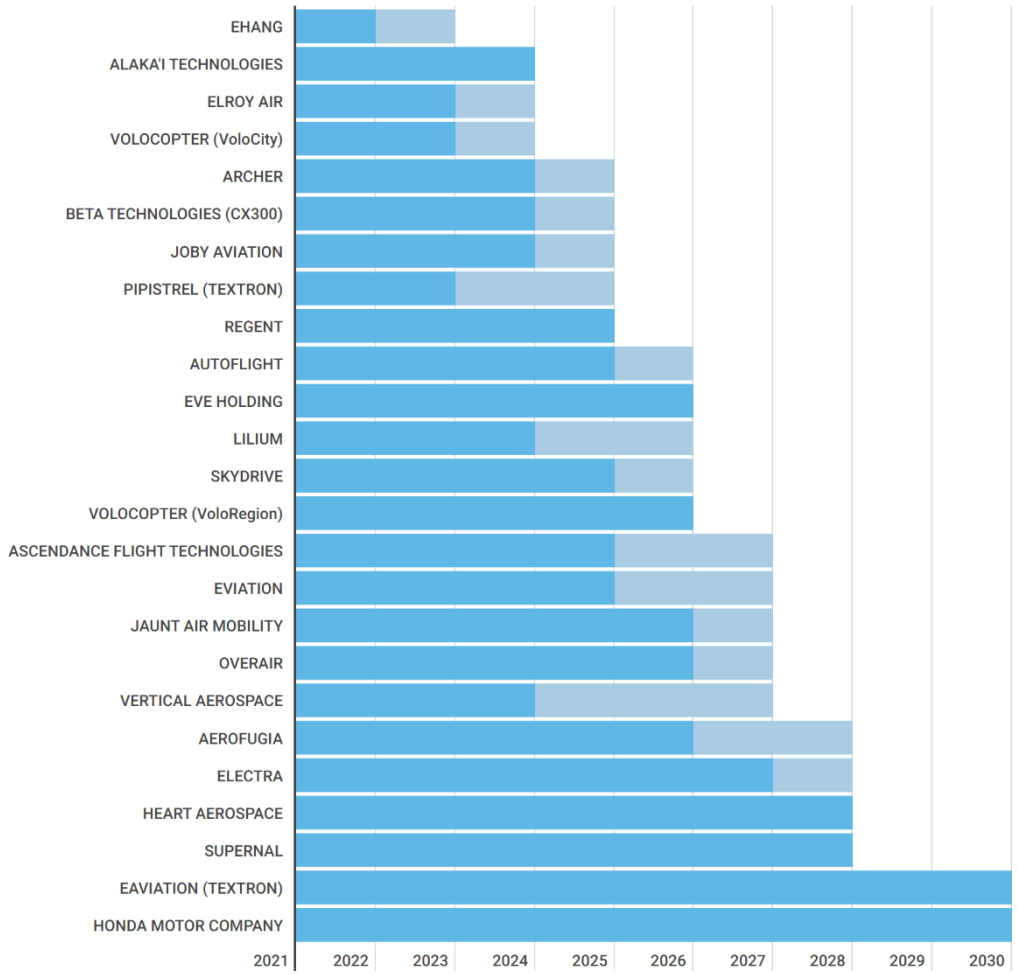
Fixed Wing Platform

ARCHER


MIDNIGHT

Legend	OEM	Vehicle
1	Airbus	CityAirbus
2	Airflow	Model 200
3	Archer	Maker
4	Bell	4EX
5	Beta Technologies	Alia S250c
6	Dufour Aerospace	aEro 3
7	Ehang	EH-216
8	Ehang	VT-30
9	Electra	eSTOL
10	Elroy Air	Chaparral
11	Eve Urban Air Mobility Solutions	Eve
12	Hyundai Urban Air Mobility	S-A1
13	Jaunt Air Mobility	Journey
14	Joby Aviation	S4
15	Lilium	Jet
16	Overair	Butterfly
17	Pipistrel	Nuuva V300
18	Sabrewing Aircraft Company	Rhaegal RG-1
19	Vertical Aerospace	VA-X4
20	Volocopter	VoloCity
21	Volocopter	VoloConnect
22	Wisk	Cora


Hydrogen


EHANG
ALAKA'I TECHNOLOGIES
ELROY AIR
VOLOCOPTER (VoloCity)
ARCHER
BETA TECHNOLOGIES (CX300)
JOBY AVIATION
PIPISTREL (TEXTRON)
REGENT
AUTOFLIGHT
EVE HOLDING
LILIUM
SKYDRIVE
VOLOCOPTER (VoloRegion)
ASCENDANCE FLIGHT TECHNOLOGIES
EVIATION
JAUNT AIR MOBILITY
OVERAIR
VERTICAL AEROSPACE
AEROFUGIA
ELECTRA
HEART AEROSPACE
SUPERNAL
EAVIATION (TEXTRON)
HONDA MOTOR COMPANY
2021
2022
2023
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2026
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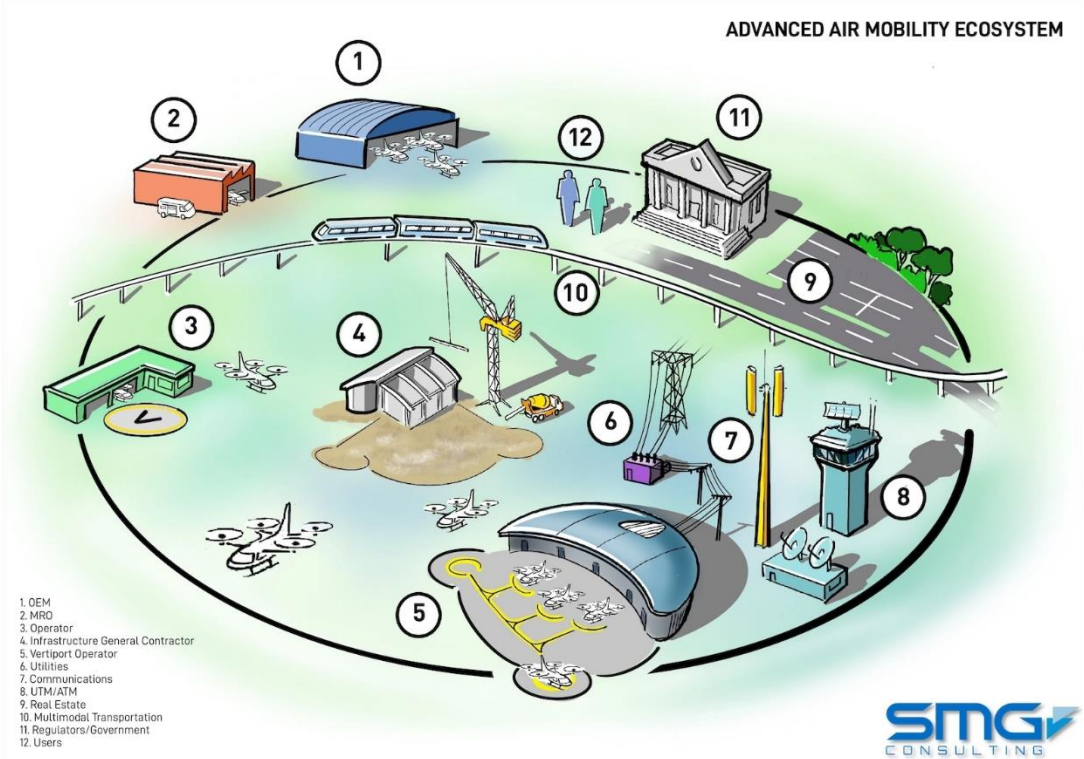
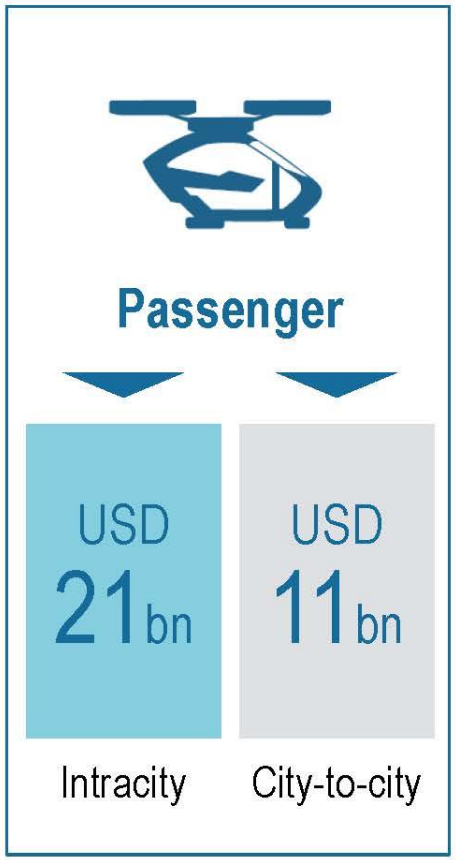
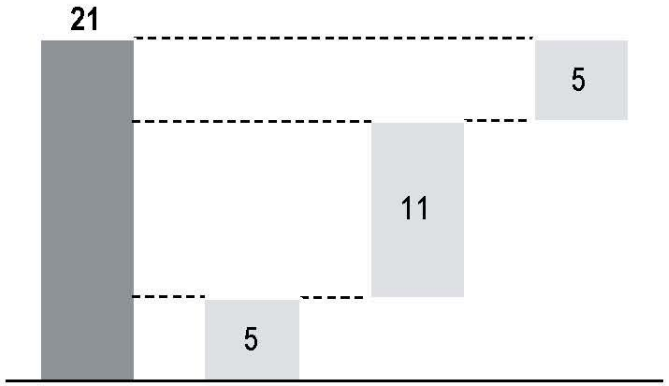

ADVANCED AIR MOBILITY ECOSYSTEM
1
2
3
4
5
6
7
8
9
10
11
12
1. OEM
2. MRO
3. Operator
4. Infrastructure General Contractor
5. Vertiport Operator
6. Utilities
7. Communications
8. UTM/ATM
9. Real Estate
10. Multimodal Transportation
11. Regulators/Government
12. Users
SMG
CONSULTING



Break down of intracity market [USD bn]

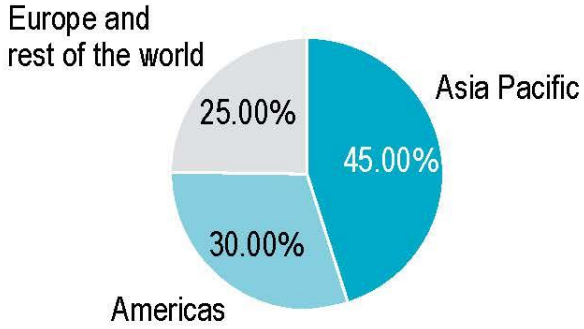


- Product (eVTOL)
- Certification
- Charging infra-structure

- End-to-end on-demand transportation
- eVTOL aircraft rental (low extent)

- Insurance
- Maintenance
- Other Services

Regional split of intracity market [%]



- Majority of market is in Asia Pacific followed by Americas driven by
  - megacities in these regions
  - increasing need to cope with congestion and emission levels

Source: Roland Berger, The high flying industry – Urban Air Mobility takes off

Addressed challenges

- Emissions (in cities)
- Congestions
- Complex mobility chains
- Difficult connection to airport hubs

UAM/ eVTOL advantages

- Low emissions (in cities) due to electrical propulsion
- Use third dimension for short distance transport
- Optimize existing mobility chains
- Fast transportation >20 km

eVTOL vs. helicopters

- 4x quieter
- 2x safer
- 15x Higher reliability
- 10x Less expensive

Source: Roland Berger, The high flying industry – Urban Air Mobility takes off

EASA
European Aviation Safety Agency

1 A POSITIVE INITIAL ATTITUDE TO UAM THROUGHOUT THE EU

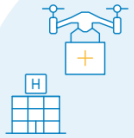
83% express an initial positive attitude towards UAM

64% and **49%** ready to try out drones and air taxis respectively

Very homogeneous replies and no major differences across cities and respondent groups

2 STRONG SUPPORT FOR USE CASES THAT ARE VALUABLE TO ALL

Emergency and/or medical transport use cases receive greatest public interest. Top three use cases:



41% transport of injured person to hospital

41% drone delivery of groceries of medical supplies to hospitals

36% transport of emergency medical personnel

3 TOP 3 EXPECTED BENEFITS: FASTER, CLEANER, EXTENDED CONNECTIVITY

71% improved response time in emergencies

51% reduction of traffic jams

48% reduction of local emissions

41% development of remote areas

Source: EASA, Study on societal acceptance of Urban Air Mobility in Europe, May 21

Thanks & have a nice day!