

Urban Air Mobility Market by Mobility Type (Air Taxi, Personal Air Vehicle, Cargo Air Vehicle, Air Shuttles & Metros), Solution (Platform, Charging, Vertiport), Platform Architecture (Multicopters, Lift + Cruise), Range & Region – Global Forecast to 2035

<https://marketpublishers.com/r/UFD2BA3229DBEN.html>

Date: September 2024

Pages: 410

Price: US\$ 4,950.00 (Single User License)

ID: UFD2BA3229DBEN

Abstracts

The urban air mobility market is estimated to be USD 4.6 billion in 2024 and is projected to reach USD 23.5 billion by 2030, at a CAGR of 31.2% between 2024 and 2030, and USD 41.5 billion by 2035, at a CAGR of 12.1% from 2030 to 2035. The Platform Volumes are expected to grow from 61,479 units in 2024 to 519,370 in 2030 to 875,438 units in 2035.

The key drivers of the UAM market include high demand for efficient urban mobility solutions to reduce congestion, technologically advanced propulsion through electric engines, autonomous systems, improved batteries, and significant venture capital and private investment. Supporting regulatory frameworks and infrastructural development of requirements such as vertiports and charging stations are the essential elements boosting the market. Further, with growing concerns about emissions and consumer interest in new, on-demand mobility options, environmental concerns and consumers' curiosity are fueling market growth.

“Platform segment is set to dominate the UAM market.”

The contribution of the platform segment would, therefore, be the largest in the market in 2024. Actually, this segment is likely to dominate the UAM market since platforms play a critical role in deploying and operating air mobility solutions. Platforms consist of eVTOL aircraft with accompanying software; initial deployment and revenue from sales, leasing, and service are included. Their potential for integration with the current

transportation infrastructure, the rapid pace of technological advance, and competitive, innovative capabilities secure the leading position of this segment in the market.

“Ride-sharing company by end user is estimated to grow at highest CAGR in forecast period.”

Based on the end user, the ride-sharing company segment is expected to grow the most during the forecast period. UAM will likely be dominated by companies operating on ride sharing because this business model has shown the best capability of scaling up quickly; matching significant growth quickly and efficiently, their long history of dealing with huge fleets gives such corporations firm grounding in the marketplace based on these merits of experience. Besides, the existing brand name and customer loyalty significantly enhance market positioning. As these air mobility solutions become integrated, ride-sharing companies will utilize their existing infrastructure and operational experience to create larger implementations of seamless and novel transportation offerings, thereby propelling the UAM sector to significant growth.

“North America is expected to hold the highest market share in 2024.”

Having the region lead the pace in innovation for the rest of the world in new concepts in urban transport and building the necessary infrastructure required for these innovations, North America maintains the largest share in the UAM market. The technology ecosystem is well-established in the region and with a strong entrepreneurial presence, development of UAM is very rapid.

Besides that, North America offers diversified geography, from varied urban and suburban environments to an ideal ground test of the UAM solution for various use cases and applications. Further, major companies in aerospace and automotive are based here; it remains a collaborative environment for the accelerated development and commercialization of UAM technologies.

The break-up of the profile of primary participants in the Urban Air Mobility market:

By Company Type: Tier 1 – 35%, Tier 2 – 45%, and Tier 3 – 20%

By Designation: C Level – 35%, Director Level – 25%, Others – 40%

By Region: North America – 21%, Europe – 18%, Asia Pacific – 42%, Rest of

the World – 19%,

include Lilium Aviation GmbH (Germany), Archer Aviation Inc. (US), Eve Holdings, Inc. (Brazil), Airbus (France), and Ehang (China). These key players offer solutions applicable to various sectors and have well-equipped and strong distribution networks across North America, Europe, Asia Pacific, the Middle East, Africa, and Latin America.

Research Coverage:

The UAM market is segmented by solution platform and infrastructure. The platform is segmented into aerostructure, avionics, propulsion systems, electrical systems, and software. Infrastructure solution is segmented into vertiports, charging stations, traffic management, and maintenance facilities.

By Mobility type, the UAM market is segmented into Air Taxi, Air shuttle and Air Metro, Personal Aerial Vehicle, Air Ambulance & Medical Emergency Vehicle, and Cargo Air Vehicle (CAV),

By mode of operation, UAM market is segmented into Piloted and Autonomous.

By Range, UAM market is segmented into Intercity and Intracity

By End User, UAM market is segmented into Ride Sharing Companies, Scheduled Operators, E-Commerce Companies, Hospitals & Medical Agencies, and Private/Personal Operators.

By Platform architecture, UAM market is segmented into rotary wing, that includes helicopters and multicopters, Hybrid Wing, that includes Vectored thrust and Lift + Cruise, and Fixed wing aircraft.

This report segments the Urban Air Mobility market across five key regions: North America, Europe, Asia Pacific, Latin America, and the rest of the world, along with their respective key countries. The report's scope includes in-depth information on significant factors, such as drivers, restraints, challenges, and opportunities that influence the growth of the Urban Air Mobility market.

A comprehensive analysis of major industry players has been conducted to provide insights into their business profiles, solutions, and services. This analysis also covers

key aspects like agreements, collaborations, new product launches, contracts, expansions, acquisitions, and partnerships in the Urban Air Mobility market.

Reasons to buy this report:

This report is a valuable resource for market leaders and newcomers in the Urban Air Mobility market. It offers data that closely approximates revenue figures for the overall market and its subsegments. It equips stakeholders with a comprehensive understanding of the competitive landscape, facilitating informed decisions to enhance their market positioning and formulating effective go-to-market strategies. The report imparts valuable insights into the market dynamics, offering information on crucial factors such as drivers, restraints, challenges, and opportunities, enabling stakeholders to gauge the market's pulse.

The report provides insights on the following pointers:

Analysis of the key driver (Rise in urban congestion), restraint (High Initial Investment), opportunities (Growing demand for shorter travel time and efficient transportation), and challenges (Cybersecurity concerns), several factors could contribute to an increase in the Urban Air Mobility market.

Market Penetration: Comprehensive information on Urban Air Mobility solutions offered by the top players in the market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the Urban Air Mobility market

Market Development: Comprehensive information about lucrative markets – the report analyses the Urban Air Mobility market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the Urban Air Mobility market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players in the Urban Air Mobility market

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 YEARS CONSIDERED
- 1.4 INCLUSIONS AND EXCLUSIONS
- 1.5 CURRENCY CONSIDERED
- 1.6 STAKEHOLDERS
- 1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key primary sources
 - 2.1.2.2 Key data from primary sources
- 2.2 FACTOR ANALYSIS
 - 2.2.1 INTRODUCTION
 - 2.2.2 DEMAND-SIDE INDICATORS
 - 2.2.3 SUPPLY-SIDE INDICATORS
- 2.3 MARKET SIZE ESTIMATION
 - 2.3.1 BOTTOM-UP APPROACH
 - 2.3.1.1 Market size estimation and methodology
 - 2.3.2 TOP-DOWN APPROACH
- 2.4 DATA TRIANGULATION
- 2.5 RISK ASSESSMENT
- 2.6 RESEARCH ASSUMPTIONS
- 2.7 RESEARCH LIMITATIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN URBAN AIR MOBILITY

Urban Air Mobility Market by Mobility Type (Air Taxi, Personal Air Vehicle, Cargo Air Vehicle, Air Shuttles &...

MARKET

4.2 URBAN AIR MOBILITY MARKET, BY END USER

4.3 URBAN AIR MOBILITY MARKET, BY MODE OF OPERATION

4.4 URBAN AIR MOBILITY MARKET, BY COUNTRY

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Rise in urban congestion

5.2.1.2 Shift of rural population to urban areas

5.2.1.3 Technological advancements in battery technology and electric propulsion systems

5.2.1.4 Smart city initiatives

5.2.2 RESTRAINTS

5.2.2.1 High initial investment

5.2.2.2 Increase in urban airspace congestion

5.2.3 OPPORTUNITIES

5.2.3.1 Growing demand for shorter travel time and efficient transportation

5.2.3.2 Need for sustainable transportation solutions

5.2.4 CHALLENGES

5.2.4.1 Cybersecurity concerns

5.2.4.2 Lack of skilled labor

5.3 VALUE CHAIN ANALYSIS

5.4 ECOSYSTEM ANALYSIS

5.4.1 PROMINENT COMPANIES

5.4.2 PRIVATE AND SMALL ENTERPRISES

5.4.3 END USERS

5.5 TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.6 TRADE ANALYSIS

5.6.1 IMPORT DATA STATISTICS

5.6.2 EXPORT DATA STATISTICS

5.7 REGULATORY LANDSCAPE

5.7.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.8 USE CASE ANALYSIS

5.8.1 UBER'S PARTNERSHIP WITH INDUSTRY LEADERS

5.8.2 VOLOCOPTER'S PLAN TO COMMERCIALIZE OPERATIONS BY 2024

- 5.8.3 EXTENSIVE TEST FLIGHTS BY AIRBUS
- 5.9 KEY STAKEHOLDERS AND BUYING CRITERIA
 - 5.9.1 KEY STAKEHOLDERS IN BUYING PROCESS
 - 5.9.2 BUYING CRITERIA
- 5.10 KEY CONFERENCES AND EVENTS, 2024–2025
- 5.11 MACROECONOMIC OUTLOOK
 - 5.11.1 INTRODUCTION
 - 5.11.2 NORTH AMERICA
 - 5.11.3 EUROPE
 - 5.11.4 ASIA PACIFIC
 - 5.11.5 MIDDLE EAST
 - 5.11.6 LATIN AMERICA
 - 5.11.7 AFRICA
- 5.12 BILL OF MATERIALS
 - 5.12.1 BILL OF MATERIALS, BY PLATFORM
 - 5.12.2 BILL OF MATERIALS, BY URBAN AIR MOBILITY INFRASTRUCTURE
- 5.13 TOTAL COST OF OWNERSHIP
 - 5.13.1 TOTAL COST OF OWNERSHIP FOR URBAN AIR MOBILITY PLATFORM
 - 5.13.2 TOTAL COST OF OWNERSHIP FOR URBAN AIR MOBILITY INFRASTRUCTURE
 - 5.13.3 TOTAL COST OF OWNERSHIP COMPARISON, BY SOLUTION
 - 5.13.3.1 For urban air mobility platform
 - 5.13.3.2 For urban air mobility infrastructure
- 5.14 BUSINESS MODELS
 - 5.14.1 BUSINESS MODELS FOR URBAN AIR MOBILITY PLATFORM OPERATIONS
 - 5.14.2 BUSINESS MODELS FOR URBAN AIR MOBILITY INFRASTRUCTURE OPERATIONS
- 5.15 INVESTMENT AND FUNDING SCENARIO
- 5.16 ROADMAP FOR URBAN AIR MOBILITY MARKET
- 5.17 OPERATIONAL DATA
 - 5.17.1 PLATFORM DATA
 - 5.17.1.1 Key urban air mobility platform order books
 - 5.17.1.2 Key urban air mobility platform noise levels
 - 5.17.1.3 Key urban air mobility platform technology readiness level
 - 5.17.1.4 Key urban air mobility platform system supplier landscape
 - 5.17.2 INFRASTRUCTURE DATA
 - 5.17.2.1 Stages of unmanned traffic management and unmanned aircraft system research, development, testing, and implementation
- 5.18 INDICATIVE PRICING ANALYSIS

5.18.1 INDICATIVE PRICING ANALYSIS FOR URBAN AIR MOBILITY PLATFORM, BY KEY PLAYERS

5.18.1.1 Pricing analysis: Comparative study of similar price range models (technology and feature)

5.18.2 PRICING ANALYSIS OF INFRASTRUCTURE AND PLATFORM

5.19 TECHNOLOGY ROADMAP

5.20 IMPACT OF AI/GENERATIVE AI ON URBAN AIR MOBILITY MARKET

5.20.1 INTRODUCTION

5.20.2 ADOPTION OF AI/GENERATIVE AI IN TOP COUNTRIES FOR COMMERCIAL AVIATION

5.21 SCENARIO ANALYSIS FOR EVTOL PLATFORMS FOR URBAN AIR MOBILITY

5.21.1 OPTIMISTIC SCENARIO

5.21.2 OPTIMISTIC TO REALISTIC SCENARIO

5.21.3 PESSIMISTIC SCENARIO

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 TECHNOLOGY TRENDS

6.2.1 PLATFORM

6.2.1.1 Hydrogen propulsion

6.2.1.2 Flight management systems (FMS)

6.2.1.3 Advanced materials and manufacturing techniques

6.2.2 INFRASTRUCTURE

6.2.2.1 Internet of Things (IoT)

6.2.2.2 Vertically integrated facilities

6.3 TECHNOLOGY ANALYSIS

6.3.1 KEY TECHNOLOGIES

6.3.1.1 Electric propulsion and battery technology

6.3.1.2 Lift + cruise configuration

6.3.1.3 Urban air traffic management

6.3.2 COMPLEMENTARY TECHNOLOGIES

6.3.2.1 Robotics

6.3.2.2 Charging infrastructure

6.3.3 ADJACENT TECHNOLOGIES

6.3.3.1 Application development for urban air mobility

6.4 IMPACT OF MEGATRENDS

6.4.1 ARTIFICIAL INTELLIGENCE

6.4.2 SUSTAINABLE AVIATION FUEL

6.5 PATENT ANALYSIS

7 URBAN AIR MOBILITY MARKET, BY SOLUTION

7.1 INTRODUCTION

7.2 PLATFORM

7.2.1 PROPULSION SYSTEMS TO DRIVE SEGMENTAL GROWTH

7.2.2 AEROSTRUCTURES

7.2.3 AVIONICS

7.2.3.1 Flight control systems

7.2.3.2 Navigation systems

7.2.3.3 Communications systems

7.2.3.4 Sensors

7.2.3.4.1 Speed sensors

7.2.3.4.2 Light sensors

7.2.3.4.3 Proximity sensors

7.2.3.4.4 Position sensors

7.2.3.4.5 Temperature sensors

7.2.4 PROPULSION SYSTEMS

7.2.4.1 Electric Batteries

7.2.4.2 Solar cells

7.2.4.3 Fuel cells

7.2.4.4 Hybrid electric

7.2.4.5 Fuel-powered

7.2.5 ELECTRICAL SYSTEMS

7.2.5.1 Generators

7.2.5.2 Motors

7.2.5.3 Electric actuators

7.2.5.4 Electric pumps

7.2.5.5 Distribution devices

7.2.6 SOFTWARE

7.3 INFRASTRUCTURE

7.3.1 VERTIPORTS TO LEAD SEGMENTAL GROWTH

7.3.2 CHARGING STATIONS

7.3.3 VERTIPORTS

7.3.4 AIR TRAFFIC MANAGEMENT FACILITIES

7.3.5 MAINTENANCE FACILITIES

8 URBAN AIR MOBILITY MARKET, BY PLATFORM ARCHITECTURE

8.1 INTRODUCTION

8.2 ROTARY WING

8.2.1 ABILITY TO OFFER DIRECT ACCESS TO CONGESTED AREAS TO DRIVE MARKET

8.2.2 HELICOPTERS

8.2.2.1 Jaunt Air Mobility Journey

8.2.2.2 Bell 407

8.2.3 MULTICOPTERS

8.2.3.1 Volocopter VoloCity

8.2.3.2 EHang 216

8.3 FIXED-WING HYBRID

8.3.1 ABILITY TO LEVERAGE EXISTING AIRPORT INFRASTRUCTURE TO DRIVE MARKET

8.3.2 LIFT + CRUISE

8.3.2.1 Eve

8.3.2.2 Beta Technologies Alia VTOL

8.3.3 VECTOR THRUST

8.3.3.1 Lilium Jet

8.3.3.2 Joby S4

8.3.3.3 Archer Midnight

8.4 FIXED WING

8.4.1 DEMAND FOR EFFICIENT AND LONG-RANGE TRANSPORTATION TO DRIVE MARKET

8.4.2 BETA TECHNOLOGIES ALIA CTOL

8.4.3 ELECTRO.AERO

9 URBAN AIR MOBILITY MARKET, BY MOBILITY TYPE

9.1 INTRODUCTION

9.2 AIR TAXIS

9.2.1 NEED FOR CONGESTION-FREE TRANSPORTATION IN URBAN ENVIRONMENTS TO DRIVE MARKET

9.2.2 MANNED TAXIS

9.2.3 DRONE TAXIS

9.3 AIR SHUTTLES & AIR METRO

9.3.1 GROWING URBAN POPULATION TO GENERATE DEMAND FOR AIR METRO

9.4 PERSONAL AIR VEHICLES

9.4.1 RISING DEMAND FOR ENHANCED PERSONAL MOBILITY TO DRIVE

MARKET

9.5 CARGO AIR VEHICLES

9.5.1 GROWING FOCUS ON LIGHT AND HEAVY CARGO FOR INTERCITY AND INTRACITY DELIVERIES TO DRIVE MARKET

9.5.2 FIRST-MILE DELIVERY

9.5.3 MIDDLE-MILE DELIVERY

9.5.4 LAST-MILE DELIVERY

9.6 AIR AMBULANCES & MEDICAL EMERGENCY VEHICLES

9.6.1 NEED FOR RAPID MEDICAL RESPONSE TO DRIVE MARKET

10 URBAN AIR MOBILITY MARKET, BY END USER

10.1 INTRODUCTION

10.2 RIDESHARING COMPANIES

10.2.1 NEED FOR INNOVATIVE SOLUTIONS TO URBAN CONGESTION TO DRIVE MARKET

10.3 SCHEDULED OPERATORS

10.3.1 NEED FOR OFFER EFFICIENT, RELIABLE, AND SCALABLE TRANSPORTATION TO DRIVE MARKET

10.4 E-COMMERCE COMPANIES

10.4.1 NEED FOR SPEED AND EFFICIENCY IN DELIVERY SERVICES TO DRIVE MARKET

10.5 HOSPITALS & MEDICAL AGENCIES

10.5.1 EMERGENCE OF AIR AMBULANCES TO DRIVE MARKET

10.6 PRIVATE OPERATORS

10.6.1 DEMAND FOR TIME-EFFICIENT TRAVEL TO DRIVE MARKET

11 URBAN AIR MOBILITY MARKET, BY MODE OF OPERATION

11.1 INTRODUCTION

11.2 PILOTED

11.2.1 TRADITIONAL AVIATION WITH MODERN ELECTRIC PROPULSION AND VERTICAL TAKE-OFF CAPABILITIES

11.3 AUTONOMOUS

11.3.1 CONTINUOUS IMPROVEMENTS IN ARTIFICIAL INTELLIGENCE AND SENSOR TECHNOLOGIES

11.3.2 REMOTELY/OPTIONALLY PILOTED

11.3.3 FULLY AUTONOMOUS

12 URBAN AIR MOBILITY MARKET, BY RANGE

12.1 INTRODUCTION

12.2 INTERCITY (>100 KM)

12.2.1 ADVANCEMENT IN BATTERY TECHNOLOGY AND HYBRID PROPULSION SYSTEMS TO DRIVE MARKET

12.3 INTRACITY (

I would like to order

Product name: Urban Air Mobility Market by Mobility Type (Air Taxi, Personal Air Vehicle, Cargo Air Vehicle, Air Shuttles & Metros), Solution (Platform, Charging, Vertiport), Platform Architecture (Multicopters, Lift + Cruise), Range & Region – Global Forecast to 2035

Product link: <https://marketpublishers.com/r/UFD2BA3229DBEN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/UFD2BA3229DBEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970