



UAM INFRASTRUCTURE,

**Market and Economic Forecasts
for 78+ Metropolitan Areas**

2020 - 2040

What We are Hearing...

"Imagine pulling out your phone, opening up a transportation app and summoning your own personalized ride by air taxi. That sci-fi vision of the future is actually much closer than you might think."

Brian Krzanich, CEO, Intel Corporation

"Urban air mobility could revolutionize the way people and cargo move in our cities and fundamentally change our lifestyle much like smart phones have."

Jaiwon Shin, NASA Associate Administrator for Aeronautics

"We think cities are going to go vertical in terms of transportation, and we want to make that a reality."

Dara Khosrowshaki, CEO, Uber

... Reality or Hype?

“It’s time to look at autonomous aircraft. The addressable market is \$1.5 Trillion in our base case by 2040.”

Morgan Stanley Research, December 2018

LACK OF INFRASTRUCTURE

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LIMITED UAM MARKETS

The Aerospace Sector Urgently Seeks **A SOLID FACT BASE**

**Upon Which to Make Today's R&D,
Infrastructure, Marketing and Other
Investment Decisions.**

78+ Cities Examined and Benchmarked



Inputs

Analytical Drivers

Modeling and Simulation

Results

Findings

- Metropolitan Demographics**
- Population and Density
 - GDP per Capita
 - Age Distribution
 - Congestion
 - Taxi Fleets and On-Demand
 - Public Transport
 - Emergency Facilities
 - Airports/Heliports
 - Helicopter Fleets
 - Corporate HQ
 - Business Aviation Fleets

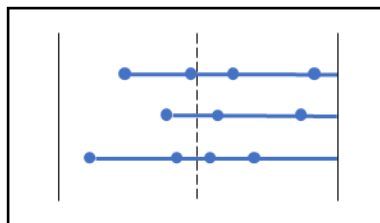
- Infrastructure Costs**
- Nominal Verti/Heli Facilities
 - Charging and Fueling Systems
 - Passenger Egress

- Vehicle & Supply Chain**
- OEM Fleets
 - Electric/Hybrid
 - Supply Chain and MRO

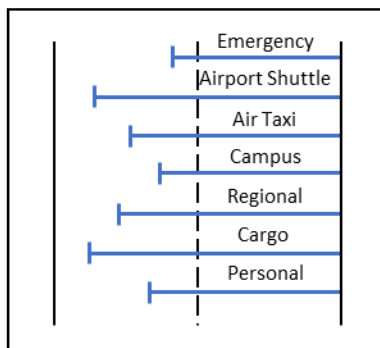
- Demand Assumptions**
- Phasing
 - Pricing

- Regulatory and Community Constraints**
- Noise
 - Certification
 - Safety
 - Public Perceptions

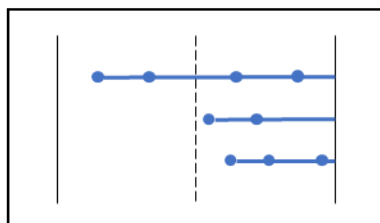
Ground Infrastructure



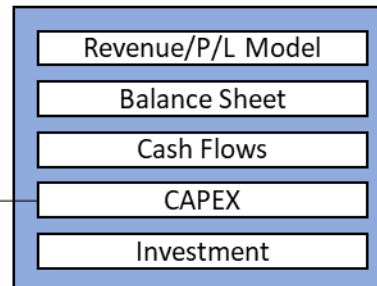
UAM Service Demand



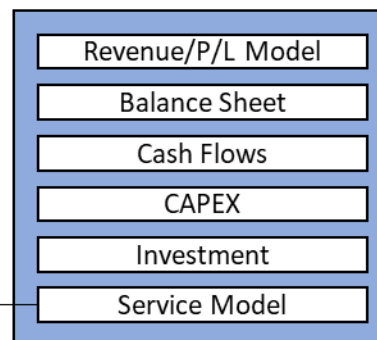
UTM Infrastructure



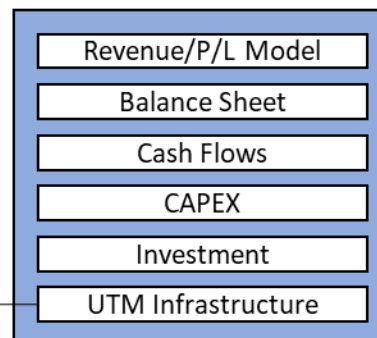
City PPP Model



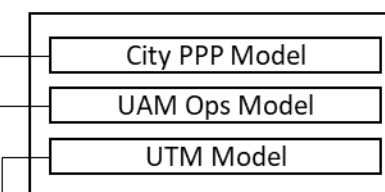
UAM Operating Model



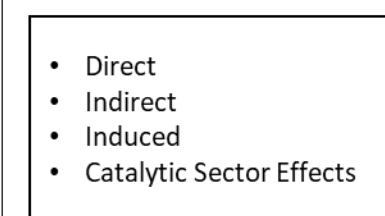
UTM Model



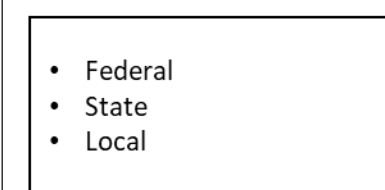
Dashboard



Econometrics



Tax Revenues



- Viability
- Fundability
- Affordability
- Public Acceptance

What is the outlook for 70 of the largest UAM metropolitan areas globally, and what policy, technology, and financial issues will individually define their success?

What is the expected size of UAM markets over the next 20 years, but especially the next 5? What are the key drivers that are absolutely essential for market expansion?

Emergency Services

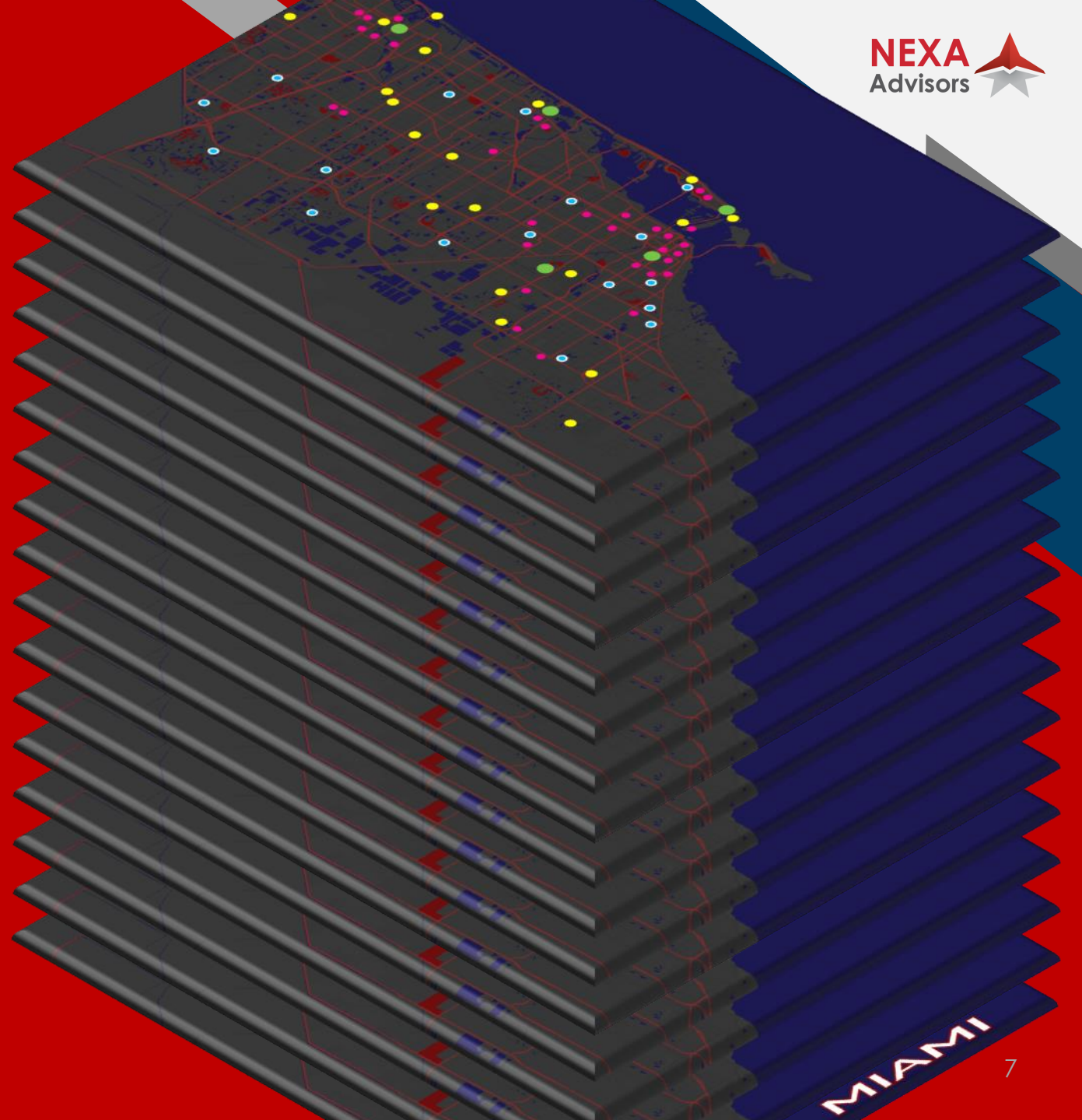
- Medivac
- Facility to Facility
- Search and Rescue
- Surveillance and Traffic

Business Aviation

- Mobility Configurations
- Utilization Strategies
- Benefits
- Shareholder Value

28 Layers of Data

1. Hospitals and Emergency Aviation Services
2. Commercial Airports
3. GA Airports
4. Major Corporate Headquarters
5. Train Stations
6. Heliports/Helipads
7. Congestion Data
8. Light Rail/ Subway Operations
9. Government Centers
10. Sporting Arenas
11. Concert Venues
12. Shopping Centers
13. Population Density and Income
14. Job Density
15. Ferry and Ports
16. 5G Deployment
17. Corporate Jet Fleet Data
18. Military Bases
19. Existing Airspace Classifications and zoning
20. Air Traffic Control and ANSP Preparations
21. Weather Models
22. Future Infrastructure Projects
23. Future UAM Transportation Operations
24. Future UTM Infrastructure
25. Future UAM Vertiports
26. Future Air Cargo Operations
27. Future Airport Shuttle Services
28. Future Emergency Services and Operations



NEXA Air-Mobility Analysis Toolkit

Miami

My Places

Aviation Facilities & System Plan Data

-  Heliports
-  Private
-  Basic Service
-  Business Service
-  Commercial Service
-  Community Service
-  Regional Service

Airspace

Pavement Management

Economic Impact & System Reports

Additional Layers

Create Air-Mobility Pad

Create Air-Mobility Tunnel



About Our Team

NEXA Capital Partners – Investment bank, NEXA is an advisor to a large syndicate of infrastructure investors.

NEXA Advisors – Research division of NEXA Capital Partners.

UAM - Economics and Global Markets - is a joint undertaking.





Thank You.



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