



UAM Geomatics, Inc.  
A NEXA Capital Company

# Urban Air Mobility Market, Business Case, and Infrastructure Investment

Geo-Coding the Future of Urban Air  
Mobility

March 3, 2022  
Plenary 6  
Presentation to:



 **NEXA Capital Partners, LLC**  
NEXA Capital powers the industry

# World Markets for UAM



Key:  
Revenue Production  
*Economic Impact*

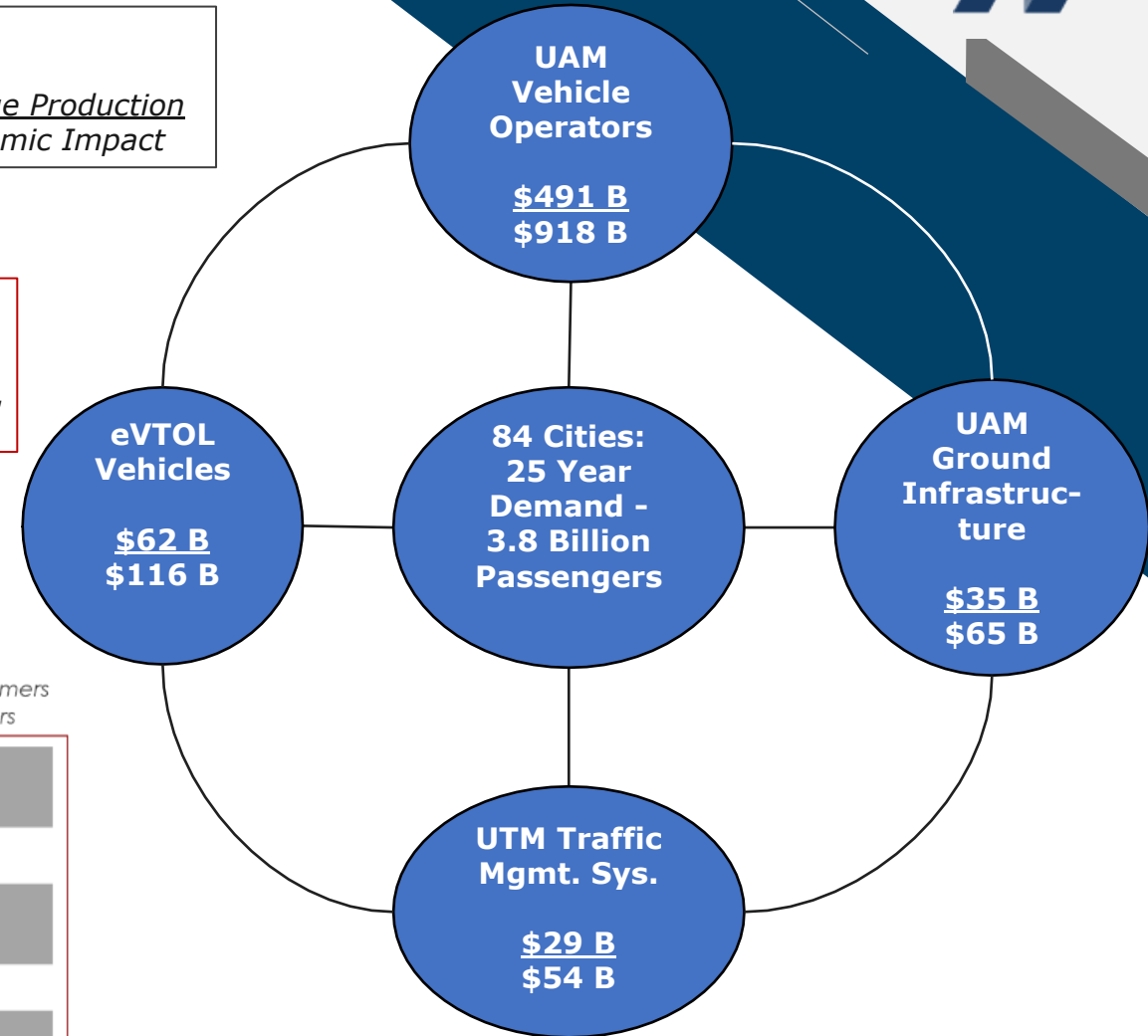
• **UAM Geomatics Analyzed Five Services...**

- Airport Shuttle
- On Demand Air Taxi
- Regional (>200Mi) On-Demand
- Corporate Campus/Business Aviation
- Medical/Emergency

*Total Global 84 City Opportunity*  
**\$1.15 T**

• **Four global supply chains were included by necessity to ensure the business case closes ...**

	Tier 2	Tier 1	Tier 0/OEM
UAM Ground Infrastructure	Airspace Designers, Structural Engineering, Transport Planners Etc.	Heliport Contractors, Infrastructure Funds, Composites, Etc.	UAM Ground Infrastructure Owners/Operators/PPPs
UATM Traffic Management	UATM Subsystems, beacons, comms and Components, Etc.	ATC Systems Integrators, Etc.	UATM Metropolitan Traffic System Operators
eVTOL Manufacturers	Electronic Components, Software Programs, Etc.	Assembly Modules, Motors, Batteries, Avionics, Etc.	eVTOL Developers and Manufacturers
Certified eVTOL Operators	Pilots, Facilities, Etc.	Maintenance Services and Capabilities, Etc.	Helicopter 91, 121 and P135 Operators and Others



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# Infrastructure Cost Components

## UAM Ground Vertiport Infrastructure Components/Costs

- Network design studies
- Environmental study
- Airspace flight approach study
- Concession agreements
- Secure project financing
- Purchase or lease land
- Construction permitting
- Architectural and engineering
- Site preparation
- Site construction
- Foundation modifications
- Platforms
- Egress, walkways
- Elevators
- Passenger shelters
- Lighting landing systems
- CNS systems (ILS, beacons, etc.)
- IT and security systems
- Perimeter systems
- Parking
- Power grid updates
- FAA (etc.) permitting and certification
- Recharging capability and systems
- Fire suppression systems
- Aeronautical chart preparation
- Etc.

## UATM Traffic Management Infrastructure Components/Costs

- UATM interoperability standards and drone/eVTOL CONOPS
- UATM one-time facilities planning
- Site/network optimization study
- Systems specifications
- Power grid studies
- Cyber security architecture studies
- Physical security architecture
- Facilities (offices) rental costs
- Automation Systems and Stations
- Flight Decision Support Tools
- Flight Plan and Flight Operations Database
- SCADA for Systems and Networks
- Computers and Equipment
- Power Grid and Backup Systems
- Network Design and Site Selection Studies
- Weather Information Systems - Areal
- Micro Weather Detection Sensors
- Beacon Navigation Nodes
- Resilient Communications Nodes
- High Density Radar
- Etc.

# UAM Infrastructure: Greater New York City



## Analytics: 2021 - 2045

GDP (PPP): \$1.4 Trillion

2018 Congestion Cost: \$100 B

2018 Congestion Ranking: 4<sup>th</sup> worse (US)

## Existing Infrastructure

Heliports/Airports: 167+20

Hospitals: 164

## Demand in 2040 (Pass.)

Elastic: 6.5 M

Largely Inelastic: 1.2 M

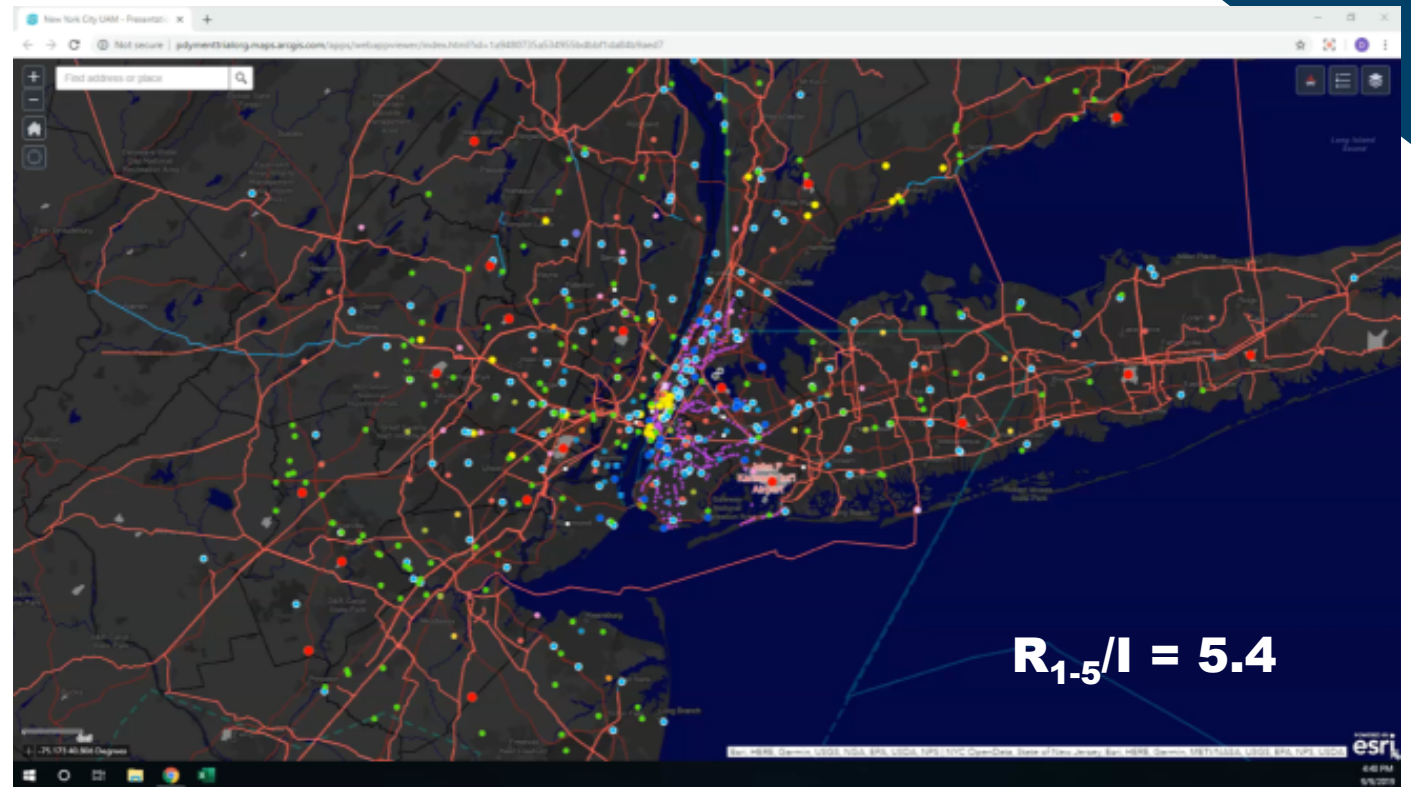
## Investment Forecast ( $\Sigma$ )

Operator Revenues: \$11.3 B

Ground Infrastructure: \$316 M

UATM Infrastructure: \$465 M

eVTOL Vehicles: \$1.4 B





# Thank You!

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