



SCAN
ME

AVIATION



ISSUE NO 2

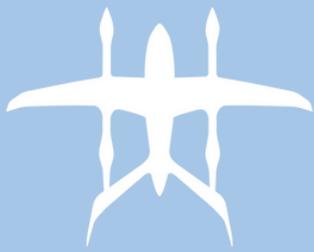
**BETA
TECHNOLOGIES**
URBAN AIR MOBILITY & SUSTAINABILITY

UAM
2025 FAST
APPROACHING
& ECONOMIC
IMPACTS



**WORKFORCE
DEVELOPMENT**
LEARN MORE ABOUT BNBATP

FEASIBILITY STUDY
PROJECT F.A.T.I.M.A.



BETA

TECHNOLOGIES



Featuring BNBATP Site Visit



In a historic site visit to Beta Technologies, one of the top electric aircraft manufacturers in the US and the only based in the NE region, BNBATP became the first all minority aviation training program whose students were not only able to view the ALIA CTOL as it returned from a 5 month deployment, but also fly it in the X-Plane flight simulator with the BETA Training Department. BNBATP's Directors engaged with BETA to discuss the importance of sustainable and climate friendly technological innovations, industry partnerships, and equitable aviation workforce development as the FAA UAM Concept 2.0 commercialization launch date of 2025 approaches.

Charge Cube



ALIA CTOL



ALIA VTOL



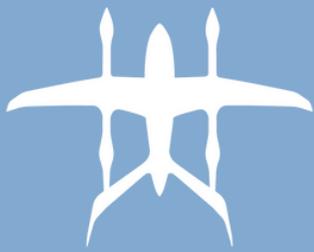
BETA's Charge Cube safely, quickly, and efficiently charges next generation electric aircraft, as well as ground-based EV's. BETA is partnering with airports, FBO's, and OEM's to deploy this technology and enable the future of aviation and electric transportation.

BETA's charging network is being built out now. They have 20 publicly accessible electric chargers online, more than 50 sites in permitting or construction, and plans to continue rollout across the U.S.

BETA also has been developing a Charge Pad which provides an integrated facility for customers operating off-airport. This will likely be used in Urban settings for UAM operations with aircrafts those above.

The ALIA aircrafts utilize electric propulsion systems to produce zero operational emissions and carry advanced energy-dense batteries. The aircraft has a 50 foot wingspan and will carry up to 5 people and a pilot.

ALIA VTOL has a multitude of UAM applications as because of its vertical lift ability which makes the aircraft suitable for both intercity and intracity travel while the CTOL is suitable for airport to airport travel and more.



BETA
TECHNOLOGIES



Sustainable Tech
Innovations & Solutions



BETA signs The Climate Pledge:

On January 4th, 2022, BETA Technologies provided the following statement to www.theclimatepledge.com:

“BETA Technologies is developing a fully integrated electric aviation system that will reshape how people and cargo move, while reducing the environmental impact of aviation. This system includes aircraft, an extensive charging network, as well as pilot training and simulators to sustain the industry moving forward. BETA is on a mission to help turn the corner on climate change, and is attacking this challenge on multiple fronts. Whether focused on their insanely reliable electric propulsion units or high efficiency battery packs, charging systems or cradle-to-grave recycling programs, their ‘whole systems’ approach is intensely focused on sustainability. This approach extends well beyond technologies and is also embedded in BETA’s approach to manufacturing, supply chain, and facilitization.”

At a Glance:

- The Climate Pledge Fund cofounded by Amazon and Global Optimism, is an investment program founded in 2019 with \$2 billion in funding.
- “In 2021, the Climate Pledge Fund made an initial investment in BETA Technologies as the company shares in Amazon's vision to create zero-emissions transportation. One year later,” -Amazon Press Release
- “Amazon has now made a second investment in BETA Technologies to continue to support their progress developing electric aircraft to one day serve the needs of various companies—as well as the planet.” -Amazon Press Release
- BETA's ALIA electric aircraft conducted a test flight between Amazon Air hubs in the Northern Kentucky and Ohio region, the first-ever test of an electric aircraft at Amazon facilities
- BETA’s ALIA also flew through six states, including New York, Ohio, Indiana, Illinois, Missouri, and Arkansas.



www.bnbatp.com



www.greenaviationglobal.com

URBAN AIR MOBILITY



FAA UAM CONCEPT 2.0

Commercialization
Launch Goal: 2025

ECONOMIC IMPACTS:



**5 BILLION
DOLLAR
INDUSTRY**

It is projected that Urban Air Mobility will soon be a 5 Billion dollar industry by 2025. This figure is expected to exponentially increase as AAM is implemented across the country.



**100,000+
JOBS
CREATED**

It is also projected that over 100,000 jobs will be created in the UAM Industry by 2025. These jobs range from pilots of new UAM vehicles, to manufacturing, to ATC and much more.



**SMALL
BUSINESS
GROWTH**

Many different niches from UAV photography and videography, UAV package delivery, public safety, aeronautics education and much more exist under UAM allowing for a multitude of small business opportunities.

MASSACHUSETTS CASE STUDY

Mass General Brigham's Home Hospital, one of the largest in the country, has partnered with Draganfly INC, a Canadian UAV package delivery company to deliver medical supplies and medication via UAV package delivery (drone package delivery). This is a poignant example of how not only are many jobs coming with the implementation of UAM, but that they will be given to foreign companies if our state and local governments do not move at the pace of the industry and foster implementation from domestic companies. Every drone in the sky is a drone pilot job that could be filled by a locally trained resident which will not only benefit local economies but the safety of the operation.

WHERE HAS UAM BEEN IMPLEMENTED DOMESTICALLY?



WING, a subsidiary of Alphabet INC, partnered with Walgreens and Dunkin' Donuts (and now Walmart) during the Covid-19 Pandemic in Texas.



United Airlines and Archer have selected O'Hare International Airport (ORD) to Vertiport Chicago as the next point to point route in which the two companies will utilize Archer's electric vertical takeoff and landing (eVTOL) aircraft



Joby announced March 5th that it has acquired a facility at Dayton International Airport to be used for the manufacturing of aircraft parts in support of Joby's Pilot Production Line in Marina, California.



BNB ATP



AVIATION WORKFORCE DEVELOPMENT PROGRAM

WHY AND HOW?

- Aviation is inaccessible to most Black and Brown residents. This combined with a dire need for workforce training and job skill programs in our communities, particularly after Covid, lead to BNBATP.
- Our elite Training Department consists of 5 Captains, 3 CFI's (including a former FAA examiner) and over 100 years of general aviation experience at the highest levels combined.
- Part 107 training gives our students solid background in airspace. Many graduates jump directly into the field with our partner GAG and gain experience in field operations.
- This is just one of the pathways our students can chose from in our programs. Many are excited to continue training after earning their Drone Pilot Licenses to one day fly Air Taxi's (like the one you see above).

BNBATP PROJECTS:

- Equitable Aviation Workforce Training & Development
- Project F.A.T.I.M.A & the AAM Feasibility Study
- AAM and Green Technology Integration
- Public Safety and Public Education
- AAM Integration Political Subcommittee
- BNBATP AAM Webinar

IMPACT:

1. BNBATP helped **100+** US residents earn their TRUST Certificate (recreational drone certificate).
2. BNBATP helped trained MA residents to successfully earn their **federal licenses (Part 107 Rating, Commercial Drone Pilot License)**.
3. BNBATP is the **only all minority Aviation Workforce Development Program** in the state of MA.

LEARN MORE:



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www.bnbatp.com



www.youtube.com/@BNBATP

SCAN ME



PROJECT F.A.T.I.M.A.

AAM FEASIBILITY STUDY

BNB ATP



While the FAA's UAM Commercialization launch date is 2025, UAM has already begun being implemented, via UAV package delivery, across the United States. Wing, a UAV package delivery company partnered with several major businesses in Texas during the Pandemic with great success and community buy-in.



Required by the FAA

BNB ATP, an aviation workforce development program that is training residents across the state of MA, and Green Aviation Global, an AAM system builder with an emphasis on green tech innovations & climate friendly solutions, are conducting the AAM Feasibility Study in accordance with FAA regulations and standards.



Troubleshooting

The study is designed to identify potential issues and problems that could arise while pursuing the Project. Airspace mapping efforts and corridor design for areas in the NE region are well underway. Issues such as highly congested areas, air traffic control management, routes, emergency response, and public safety applications are just a few of the topics covered by our industry experts and field operators.



Environmental Case Study

The vast majority of UAVs (drones) run via rechargeable lithium ion batteries. The majority of Amazon packages delivered (upwards of 86%) weigh less than 5 pounds, which can be delivered by UAVs. UAV package delivery will reduce emissions caused by gasoline-fueled vehicles and reduce fossil fuel consumption



Seamless Integration

Integrating UAM per FAA regulations and standards (UAM Concept 2.0) will benefit the public in terms of ease of transportation, integrating green/climate friendly technology, access to emergency services, public safety, as well as create economic prosperity and opportunities for UAM businesses in various niches, again benefitting residents.

