

UAM News:

- This month, a flying taxi company in Vermont, Beta Technologies, was granted \$169M for a production facility.
 - This facility is the first in the NE region, which means that the FAA goal for urban air mobility is on track for public operation by 2025.
- The FAA granted ALEF, who is designing and developing the world's first real flying car, their airworthiness certificate.
 - The company's first delivery is projected for the end of 2025.
 - BNBATP became the first all minority aviation training program in the state of MA to order an ALEF flying car.
- Since September 16, 2023, all drones requiring registration must operate in accordance with the Remote ID rule per the FAA.
- You will also need your TRUST (The Recreational UAS Safety Test) Certificate if you want to fly any UAV (drone) recreationally in the United States. Get your TRUST certificate and more information by scanning the QR code:



- Read more about aviation news and exciting developments in the latest edition of our Aviation Magazine by scanning the QR code:



Federal and State Updates:

MassDOT Aeronautics

The responsibilities of MassDOT Aeronautics include to:

- Regulate and promote air transportation in the Commonwealth.
- Maintain and oversee 35 of the State's 38 public-use airports.
- Support economic development and job growth.
- Reduce aviation's environmental impact.
- Explore and, when suitable, introduce advanced aviation systems, including:
 - Drones equipped with sensors to help ensure air safety by better monitoring airspace in the Commonwealth (under the **Drone Operations Program**)
 - Electric charging stations, which can charge electric aircraft, cars, and buses.

Commonwealth UAS Integration Program (CUIP)

MassDOT's Advanced Aviation Technologies Group also runs the Commonwealth UAS Integration Program (CUIP) to expand the operational use of uncrewed aircraft systems (UAS, or "drones") for transportation use cases across MassDOT, the MBTA, and other state agencies. The CUIP team is working to enable complex drone operations, including long-distance beyond visual line of sight (BVLOS) operations and drone delivery to remote communities, and is developing sensor systems to detect and track both crewed aircraft and drones.



URBAN AIR MOBILITY

COMING TO MASSACHUSETTS SOON!

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"Paving the way for a more sustainable future through green UAV technology."

What is Urban Air Mobility (UAM)?

UAM is a subset of Advanced Air Mobility (AAM), an initiative by the FAA, National Aeronautics and Space Administration (NASA), industry. AAM initiative aims to develop an air transportation system that moves people and cargo between local, regional, intraregional, and urban locations not previously served or underserved by aviation using innovative aircraft, technologies, and operations. While AAM supports a wide range of passenger, cargo, and other operations within and between urban and rural environments, UAM focuses on flight operations in and around urban areas.

How will UAM be Implemented?

Step 1: Feasibility Study

The study will analyze the viability by determining whether the project or venture is likely to succeed and troubleshoot problems before implementation.

A necessary and crucial step required by the FAA (including meeting FAA safety standards) for all UAV/UAS operations.

UAM has already been successfully implemented in several cities across the US, such as Dallas, TX.

Who is Conducting it?

Green Aviation Global: “Ensuring AAM integrates with Environmental Sustainability” with our Partners:



Choice Aeronautical Academy is the FAA liaison and safety expert on how UAV/UAS and general aviation intersect safely (air traffic separation & air traffic communications).



UFO Aerials is our international partner with experience in Field Operations in communities globally.



BNBATP is an aviation workforce development program that is training residents across the state of MA to break into the burgeoning UAV industry with a focus on equity, diversity, and giving back to the community via public safety efforts.



Under Federal Regulations and in accordance with **FAA UAM Concept 2.0**, we will integrate UAM into the state of Massachusetts.



Green Tech: Ensuring a Better Tomorrow

Reduced Emissions

Drone package delivery will reduce emissions caused by gasoline-fueled land vehicles because the majority of packages delivered (upwards of 86%) weigh less than 5 pounds, which can be delivered by drones.

Environmentally friendly drones are often able to fly more efficient routes via air compared to land vehicles that must navigate via roads. Thus, decreasing the amount of energy needed to deliver the same packages.

Electric vs Fossil Fuels

Drone package delivery is inherently green because the vast majority of drones run via rechargeable lithium ion batteries. Therefore, not contributing to pollution caused by using fossil fuels as an energy source.

Rechargeable & Reusable

Many battery companies have also been developing technology to allow a greater number of recharges before the battery must be discarded for safety. The more times a battery is able to be reused, the less waste is produced. Many components of these batteries, even once past the maximum number of charging cycles, can be recycled as well.