

# Board Report:

## FAA Additional Airport Funding Sources, FAA Congressional Workshop, & Growth of New Advanced Air Mobility Technologies

March 29, 2021

---

*Presented to:*

■ **Board of Directors**

*Presented by:*

■ **Aeronautics Division**

➤ **Dr. Jeff DeCarlo**

---

# FAA Additional Airport Funding Sources



- On March 10<sup>th</sup>, President Biden signed into law a \$1.9 trillion relief package known as the “American Rescue Plan” which provides additional targeted relief for the aviation industry
- Under the bill, the Payroll Support Program for air carriers and general aviation commercial operators would receive \$14 billion, plus another \$1 billion for qualifying contractors
- The legislation also provides \$8 billion in funding for airport provisions that include:
  - \$6.49 billion for “primary commercial airports”<sup>1</sup> and certain cargo airports for costs related to operations, personnel, cleaning, sanitization, combating the spread of pathogens at airports and debt service payments
  - \$800 million for primary airport sponsors to provide relief from rent and minimum annual guarantees to both large and small airport concessions
  - \$608 million to cover a 100 percent federal share for grants awarded in FFY 2021 or for grants awarded in FFY 2020 that had less than a 100 percent federal share, and
  - \$100 million for general aviation and non-primary airports designated for airport infrastructure projects

1 Footnote: Primary commercial airports in MA include Hyannis (HYA), Martha’s Vineyard (MVY), Nantucket (ACK), New Bedford (EWB) & Provincetown (PVC)

# FAA Hosts Regional Congressional Workshop



- The FAA hosted a Congressional Workshop on March 4<sup>th</sup>. Invitees included State legislators, FAA Senior leadership, and State DOT staff and directors throughout the New England Region
- The meeting focused on FAA challenges, priorities and initiatives and best industry practices at airports across the region
- The event was well-received, a second session has been scheduled for March 22nd to expand access to more aviation stakeholders that could benefit from this valuable information session



## Aviation Industry Initiatives & Topics of Interest








FAA Safety/Compliance Standards	Flight Standards
Airports and Noise	Aircraft Certification
Unmanned Aircraft Systems (UAS) and Advanced Air Mobility (AAM)	Air Traffic Organization (ATO) Airspace Procedures
Commercial Space Transportation	STEM Aviation & Space Education

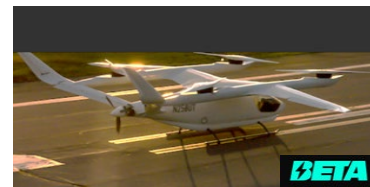


# Growth of Advanced Air Mobility (AAM): Drone Delivery & Passenger Transportation

- Technology and the regulatory landscape are advancing rapidly with multiple credible players in goods delivery and passenger transportation flight test
- Division working to help potential AAM services to plan for safe connections with existing transportation networks to ensure equitable access
- Existing General Aviation approaches can be leveraged for the “crawl” phase of the industry, with evolution enabling the “walk” and “run” phases in the future

*Principles of the Urban Sky, Seven UAM Principles, World Economic Forum*

 <p><b>Safety</b> New forms of air transport must achieve levels of safety performance consistent with conventional aviation operations</p>	 <p><b>Equity of access</b> There should be equitable access to mobility for disadvantaged communities</p>
 <p><b>Sustainability</b> UAM must improve environmental outcomes and embrace innovation to achieve more sustainable behaviors</p>	 <p><b>Multimodal connectivity</b> UAM should connect to existing, high-quality transport options, offering seamless travel</p>
 <p><b>Low noise</b> Noise disturbances should be measured and mitigated by a community-first approach</p>	 <p><b>Purpose-driven data sharing</b> Data sharing should help providers quickly respond to passenger need and market demand</p>
 <p><b>Local workforce development</b> UAM is expected to increase jobs on the ground and in the air</p>	



# Growth of Advanced Air Mobility: Electric, Hydrogen, and Bio-fuels Powered Aircraft

- “Alternative fuel” types include electric, hydrogen and bio-fuels powered aircraft. Each represents an opportunity to reduce or eliminate AAM greenhouse gas emissions (including fuel generation)
  - Electric-powered vehicles currently present challenges with on-demand power requirements and charging port capability
  - Hydrogen-powered vehicles (combustion or fuel cell) present challenges for generation and storage of the hydrogen
  - Bio-fueled vehicles are promising because of the decreased demand on fossil fuels
- Challenges exist with compatibility of fueling systems and the replacement of existing aviation fossil fuel sources. Airports may require significant upgrades to fuel/electrical infrastructure to support potential future demand



*Lilium Electric-powered aircraft*



*Alakai Skai Hydrogen-powered aircraft*