ATM-X's Urban Air Mobility (UAM) Subproject

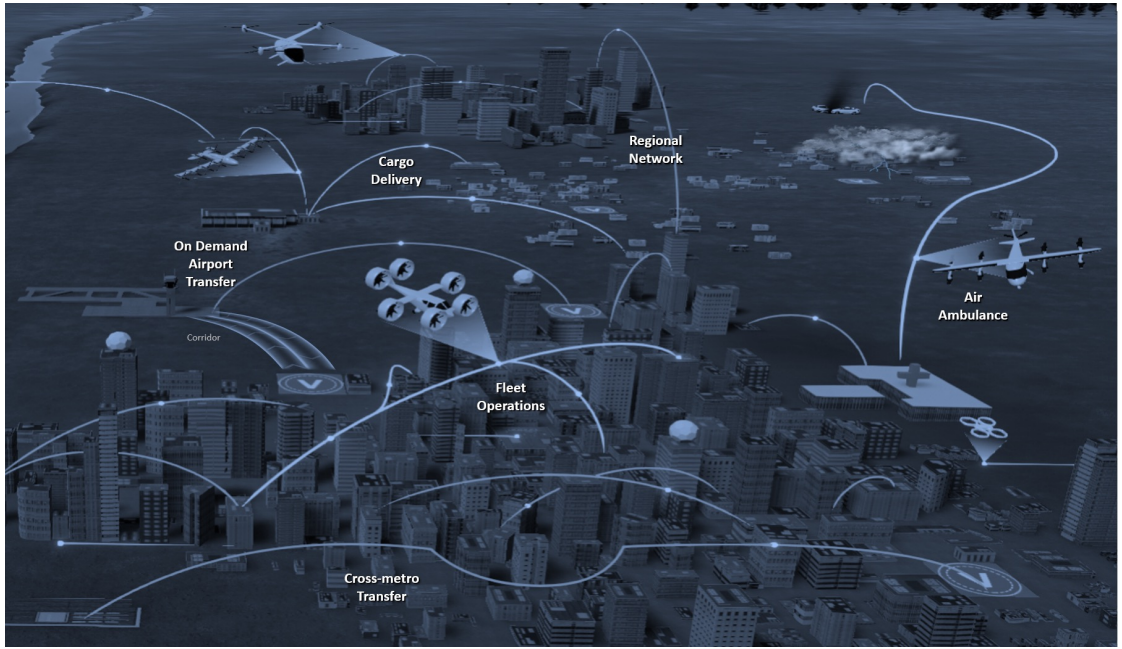
Secured Airspace for UAM Workshop

WHAT IS UAM

Urban Air Mobility (UAM)

UAM is a subset of the Advanced Air Mobility (AAM) concept under development by NASA, FAA, and industry

- UAM focuses on passenger or cargo-carrying air transportation services in and around urban areas
- Allows moving people and cargo between places previously not served or underserved by aviation
- NASA's role: help emerging aviation markets develop a safe air transportation systems
  - Advanced technologies (e.g., electric aircraft, automated air traffic management)
  - Leverage existing and develop new operational procedures



Notional Architecture for UAM

FAA ConOps v1 notional architecture describes the primary actors, functions, and data flows that support UAM operations in the envisioned future

- UAM airspace system will include aspects of a federated architecture
- Operators will rely on an array of technologies that are either self-provided or from a third-party
  - e.g., Provider of Services to UAM (PSU), Supplemental Data Service Provider (SDSP)
- Governance is divided between a central authority (e.g., FAA/ANSP) and constituent units (e.g., operators)
  - Actors will operate collaboratively while adhered to a set of Community-Based Rules (CBRs)