Tab 64

Advanced Air Mobility

Advanced Air Mobility 101

What is Advanced Air Mobility?

Defining “Advanced Air Mobility”

- **Advanced Air Mobility (AAM)** is an emerging market in the aerospace industry that explores novel aircraft and supporting infrastructure to provide additional aerial transportation for people, freight, and emergency services.

Early Trends in the United States

- **Drone Delivery**:
  - Texas
  - North Carolina
  - San Diego
- **Advanced Air Mobility Programs**:
  - Ohio
  - New York
  - California
    - SANDAG, City of Los Angeles, City of Long Beach

AAM: Categories

Regional Air Mobility (RAM)

- Inter-city and/or regional destinations over routes of up to around 190 miles.
  - **Use Cases**: People, Freight, Emergency Services

Urban Air Mobility (UAM)

- Passengers and cargo in and around urban environments with routes of up to around 30 miles.
  - **Use Cases**: People, Freight, Emergency Services

Uncrewed Aircraft Systems (UAS)

- Small aircraft for the delivery of goods and services.
  - **Use Cases**: Cargo, Services

Graphic Source: Federal Aviation Administration

AAM: Elements

Aircraft

- Airframe
- Engines
- Safety Systems
- Communication Systems
- Navigation Systems
- Certification
- Maintenance

Primary Stakeholders:
- Federal Regulators
- Original Equipment Manufacturers/Service Providers

Airspace

- Policy
- Airspace Regulation
- Airspace Design
- Airspace Management
- Control Systems
- Technology / Software
- Digital Solutions
- Routing and mapping

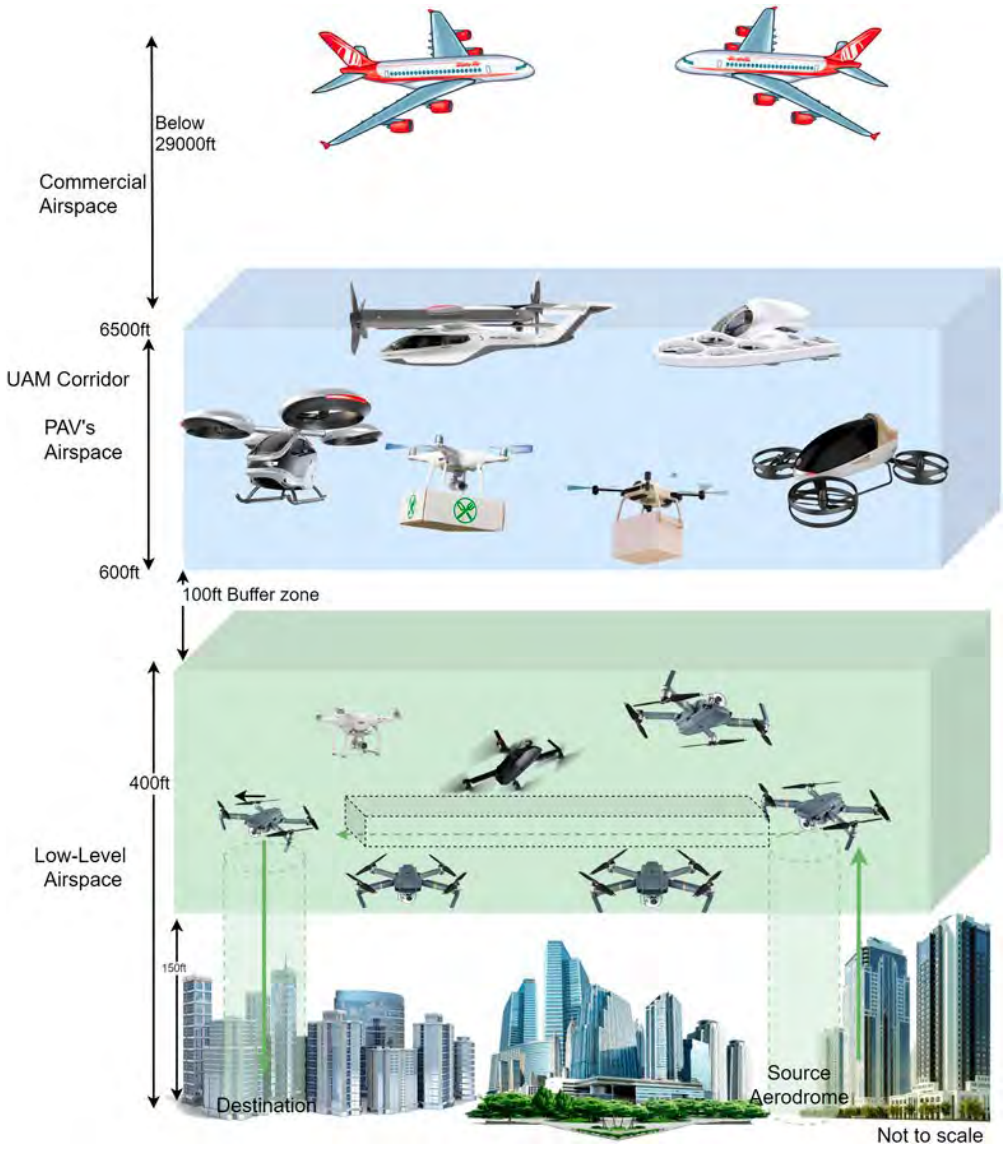
Primary Stakeholders:
- Federal Regulators
- Airports and Air Traffic Control
- Service Providers

Supporting Infrastructure and Policy

- Ground Based services
- ‘Vertiports’
- Airports
- Buildings
- Power
- Resilience
- Communications
- Facility development
- Security

Primary Stakeholders:
- Regional, Local and State Jurisdictions
- Local Utilities

AAM: Airspace



Airspace Considerations for State & Local Entities:

- **Public Awareness & Perception**
  - Airspace ownership
  - Noise
  - Privacy
- **Deconfliction**
  - Awareness
  - Stakeholder Coordination

AAM: Land Use and Infrastructure Considerations

Verti-What?

Vertiports, Vertistops, and Vertihubs are infrastructure concepts meant to accommodate AAM vehicles.

- A "**Vertihub**" is the largest facility concept and can be equated to a Transportation Investment Zone that accommodate AAM aircraft as a middle-mile component of a larger network of last-mile modalities.

- Think electrified heliports of the future!

SANDAG AAM Vision

- Establish a clear and uniform vision for integrating AAM in the region
- Address major concerns and needs
- Define individual roles and responsibilities
- Identify non-negotiables as they relate to permitting and transportation integration
- Consider CEQA & NEPA implications
- Focus on designing efficient vertiport facilities and operations

Questions?

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