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Advanced Air Mobility (AAM)

State/Local/Regional Implementation Considerations and a Solution Approach

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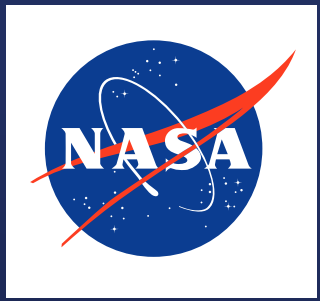
FUTURE OF AVIATION

Advancing Aerial Mobility
through Technology, Sustainability,
and On-Demand Flight

Background



- The National Aeronautics and Space Administration (NASA) is leading a wide range of Advanced Air Mobility (AAM) research
- In 2021, NASA stated, “Engagement with local governments and community stakeholders is an integral part of the strategy for AAM”
- NASA formalized collaborations with the following early adopters:
  - City of Orlando, Florida
  - Massachusetts Department of Transportation
  - Minnesota Department of Transportation
  - North Central Texas Council of Governments Department of Transportation
  - Ohio Unmanned Aircraft Systems Center of the Ohio Department of Transportation

“Considerations for Local Implementation of Advanced Air Mobility”

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- Authored for NASA by the Community Air Mobility Initiative (CAMI), a nonprofit educational organization whose mission is to support the responsible integration of AAM into communities, in conjunction with Crown Consulting Inc.
- A practical resource to inform local, regional, state, and tribal planning for AAM
- Produced through a series of workshops held with the five early adopter state and local government entities
- Thirteen considerations in eight categories

“Considerations for Local Implementation of Advanced Air Mobility”

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- Institutional Readiness
- Equity and Community Engagement
- Planning and Multimodal Integration
- Data
- Funding
- Economic Development and Workforce Readiness
- Operations and Interoperable Infrastructure
- Sustainability and Environmental Impacts

Community Integration Platform (CIP)

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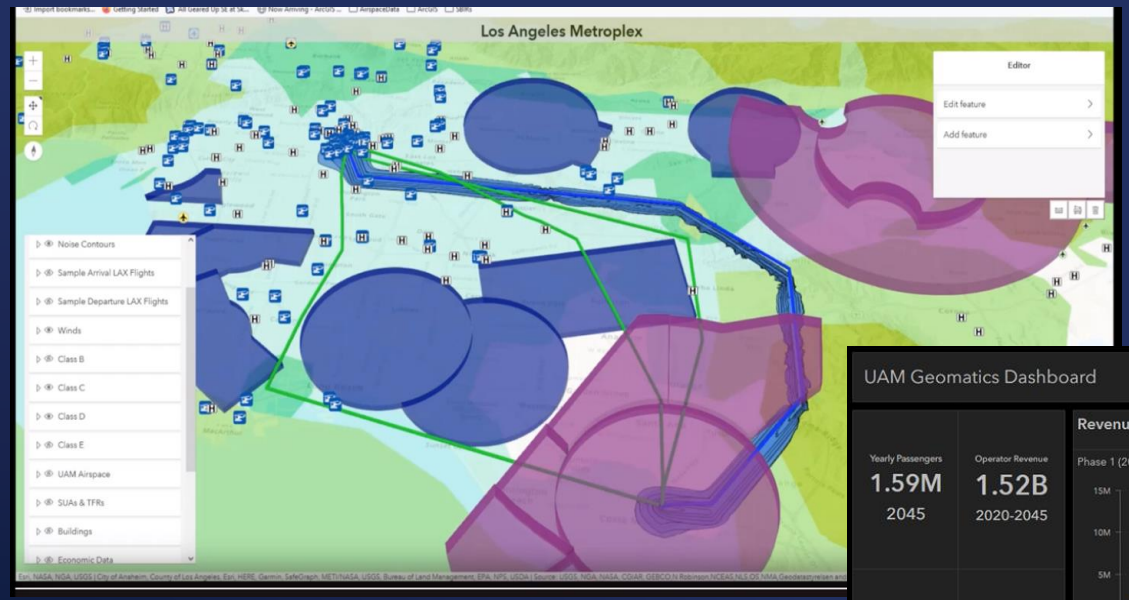
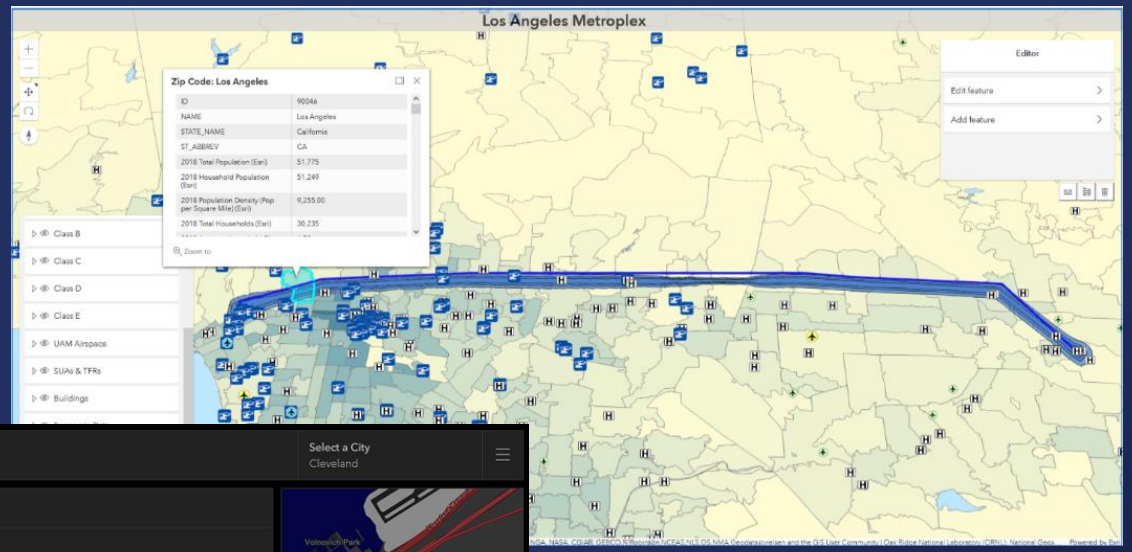
- 2021 NASA Phase 1 Small Business Innovative Research (SBIR) completed
  - Understand customer needs
  - Define data and analysis offerings
  - Describe use cases and applications
  - Determine platform architecture
- 2022 NASA Phase 2 SBIR kicking off this month
  - Develop prototype software toolset to support planning, analysis, and public acceptance of system design options incorporating AAM in the local or regional transportation system
  - Analyze noise, safety risk, vertiport locations, flight paths, demand/economic impacts

Community Integration Platform (CIP)





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