42nd Annual AAAE
Airport Law Workshop
Phoenix, AZ

Session #17

Innovative and Disruptive Technologies at Airports



KAPLAN KIRSCH

American Association of Airport Executives
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International Municipal Lawyers Association
Advancing Excellence in the practice of Local Government Law

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Autonomous Vehicle Ground Access

- Airport access issues
- State/local regulation
- Federal regulation



The Beginning

- 3 years of planning and implementation
- Unique licensing
- Phoenix Sky Harbor
  - Layers of access
  - Fully autonomous
  - Crawl, Walk, Run

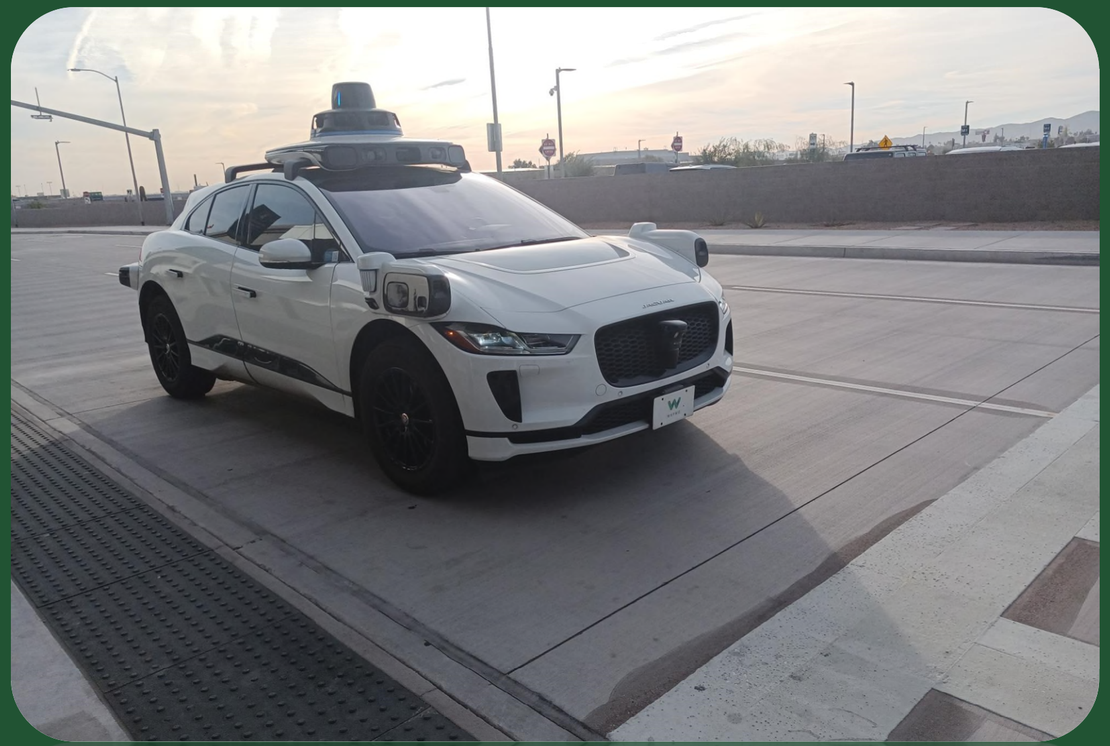




Implementation

- Innovative leadership
- Agreements
- Transparency
- Collaboration
- Planning





Challenges

- Acceptance
- Training
- Unique issues
- Competitors



Moving forward…

- Highway access/expanded territory
- New vehicle types
- Other entrants



Alternative Air Mobility (a.k.a. “Air Taxis”)

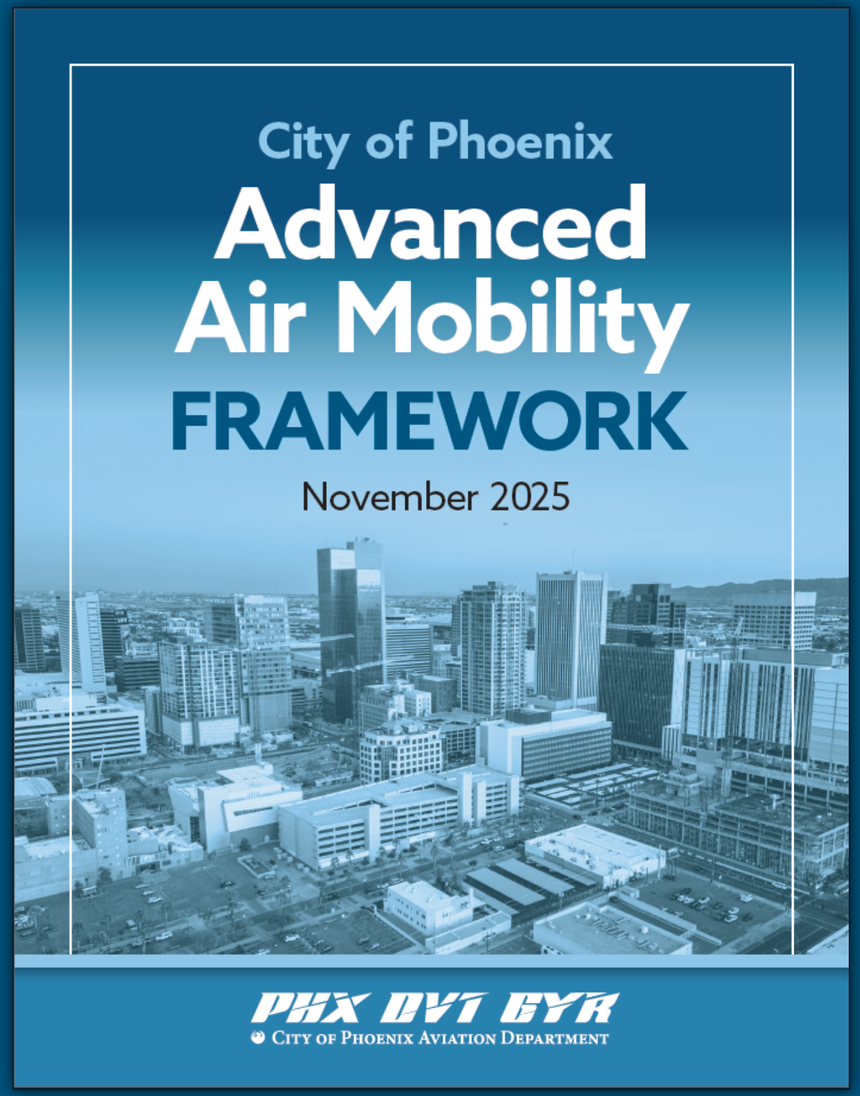
Not just urban air mobility?

- eIPP Program
  - Urban versus rural
  - Airport versus non-airport
- Airspace issues
- Ground infrastructure and access issues
- Power
- Preemption!





Advanced Air Mobility (AAM)



PHX Study

FAA Vertiport Design Guidance







PHOTOS: Heart Aerospace; Bye Aerospace

Electric/Hybrid Aircraft

- Leaded Avgas
- Utilities
- Economics

Unmanned Aerial Systems (a.k.a “Drones”)

- New Counter-UAS Authority
- Section 2209 Notice of Proposed Rulemaking
- Beyond Visual Line of Sight Rulemaking
- Preemption!



Advanced Airport Technologies

Such as laser-based gate parking assistance and landside technology

- Coordination of Safety Management Systems
- Coordination of liability, operations and other issues
- Procurement and AULA issues
- Cybersecurity
- Labor issues?



Remote Terminal and Bus Models

Landline at BOS, PHL, and DEN



- Will involve extensive TSA involvement if passengers or bags go into sterile environment
- Airport versus non-airport terminals
  - Effects on AIP funding
- Revenue use issues
- Public utilities and other state/local regulatory issues
- Airport access issues
- Airline Deregulation Act preemption issues?



Other Advanced Ground Access Technology

Peas in a Pod?



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Questions?



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Thank You!



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