

Welcome to WALA XIII Paris, France June 28-30, 2023

Developing a Regulatory Scheme for AAM/UAM in the USA Peter J Kirsch Kaplan Kirsch & Rockwell 30 June 2023

Legal framework for AAM/UAM regulation

- Federal regulation of 'navigable airspace'
- Defined airspace at and above the minimum flight altitudes prescribed by FAA
 - 1000 feet (305m) and above in urban areas
 - 500 feet (152m) and above in rural areas
 - Airspace needed for takeoff and landing
- Law protects private property rights outside navigable airspace
- Distinguish *airspace* access/regulation from *airport* access/regulation
- What about low altitude flights?



Federal government's (probable) legal structure

The Horseless Carriage approach (thanks Diego)

- Operations: integrate into existing system and legal framework (not entirely new system)
- Vehicles: apply same principles as in existing aircraft certification
- Pilots: to be determined; US Air Force examining
- Facilities: to be determined; no one in charge yet

Possible early airspace allocation

Crawl, walk, run approachInitial separation; integration later



Operations versus facilities

- Federal legal structure focused on
 - Airspace
 - Vehicles
 - Pilots
 - Safety of facility design
- Limited federal interest or authority over
 - Facility siting and location
 - Facility amenities
 - Utilities (electricity supply)



UAM facility considerations: on-airport

- Granted by each airport operator, not FAA
- Property availability/ use limitations
- Security
- Interference with fixed wing operations
- Access to electricity and other infrastructure
- Landside access
- Passenger terminal access
- Zoning and land use restrictions

UAM facility considerations: off-airport

- Local zoning, land use controls permissible
- Property availability/ use limitations
- Security
- Access to electricity infrastructure
- Federal preemption only *after* facility is permitted

Use cases

- Much speculation
- Different use cases implicate different legal schemes –
 - Midrange (under 250 miles) operations at normal air traffic altitudes
 - Short range (10-25 miles) operations under normal aircraft altitudes
 - Airport-to-airport
 - Airport-to-UAM facility

Complex mix of agencies and players



Current status of legal framework

- AAM Integration Executive Council (2021)
- Concept of Operations 1.0 (July 2020); 2.0 (May 2023)
- Pilot certifications and operating requirements (June 2023)
- Vertiport design standards (November 2022) (not yet regulatory)
- Type certifications expected 2024
- Considerable legislative activity
- initially be approved to operate within the legacy regulatory environment with human pilots as the regulatory framework is adapted to permit higherfrequency operations
- point-to-point corridors between vertiports under conventional visual and instrument flight rules.
 - Corridor management and conflicts (?airspace markets)
 - Size of corridors

Thank you!

Peter J Kirsch

CELEBRATING 20 YEARS

pkirsch@kaplankirsch.com www.airportattorneys.com

> WALA 2023 Hosted by

