AAM Multistate Collaborative and FIX-MVI

13 Feb 2024

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AAM Multistate Collaborative

AAM is the next generation of aviation and encompasses the full scope, from sUAS to the modernization of ATM. It includes everything from small UAS to eVTOLs to electric and hybrid general and commercial aviation platforms through to providing improved services and safety for general and commercial aviation. Our role is to focus on those policies and services that are within the scope of state government – state and local policy regarding commercial operations, land use, licensing and permitting, and ground based infrastructure – to support this transformation and modernization of aviation.

Goals include:

- Work towards harmonizing state efforts so that industry can expect consistency across states.
- Take working plans to the FAA and industry for input to ensure that harmonization and common infrastructure are consistent with standards and FAA policy.

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AAM Collaborative Topics

- Scope of AAM and Role of the States
- Lessons Learned from the States
- Basic Principles of AAM at the State Level
- Identified Areas of Discussion, physical and digital infrastructure minimum service levels
- Extending / Expanding from Current Aviation, especially GA
- Economic and Workforce Development
- Positions with Respect to, and for, long-term system funding

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What is FIX-MVI?

- Enable near-term AAM services and return on investment
  - “Flight Information Exchange” (FIX)
  - “Minimum Viable Infrastructure” (MVI)
- FIX is focused on cost-effective, public, secure mechanisms for data sharing to support Federal Aviation Administration (FAA) requirements for safe AAM integration
- MVI is a risk-based approach to infrastructure resulting in cost-effective deployment of infrastructure enabling immediate next steps in AAM
- Support community integration and give industry a place where they can fly
- Return on investment and a path to financial sustainability within 2-3 years

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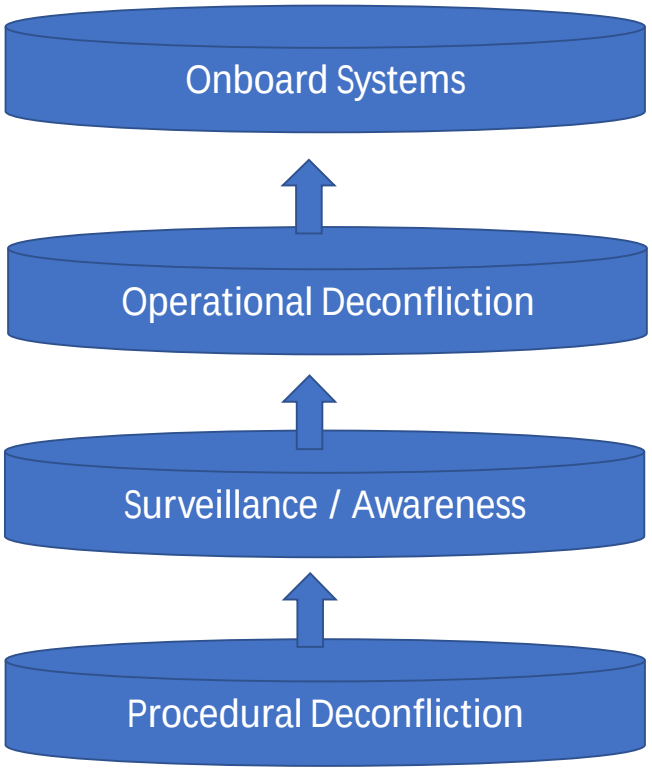
FIX-MVI Safety Model



Onboard Systems	"OODA Loop:" Intelligence to decide course of action based on information below	DAA, SAA, GCS, Pilot
Operational Deconfliction	"When and Where:" Help operators schedule flights to avoid occupying the same space in time	USS – UTM – PSU providers
Surveillance / Awareness	"Eyes and Ears:" Help operators know what else is flying near them and if they are complying with procedures	Surveillance and Environmental Sensor and Data Providers
Procedural Deconfliction	"Rules of the Road:" Advise operators on preferred areas, areas to avoid, and common procedures	SDSP Services, groundspace data, incidents, events, hazards, FAA, etc.

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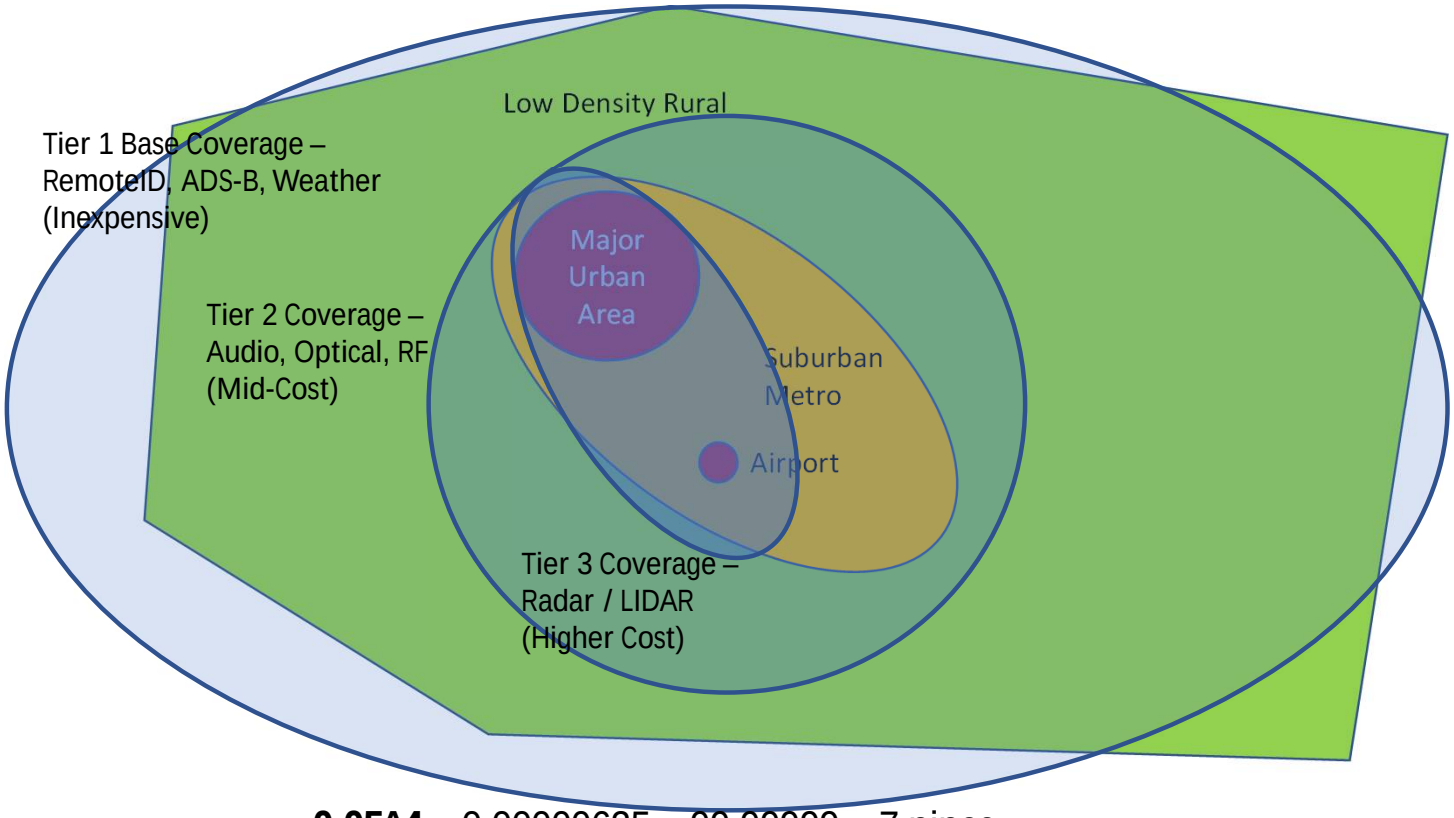
MVI Model and Cost Model



0.05^4 = 0.00000625 = 99.99999 = 7 nines

- Tier 1 Cost:
  - Bench: $5,000
  - Actual: $4,420
  - Future: $2,500
- Tier 2 Cost:
  - Bench: $20,000
  - Actual: $17,920
  - Future: $15,000
- Tier 3 Cost:
  - Bench: $75,000
  - Actual: $107,920
  - Future: $50,000

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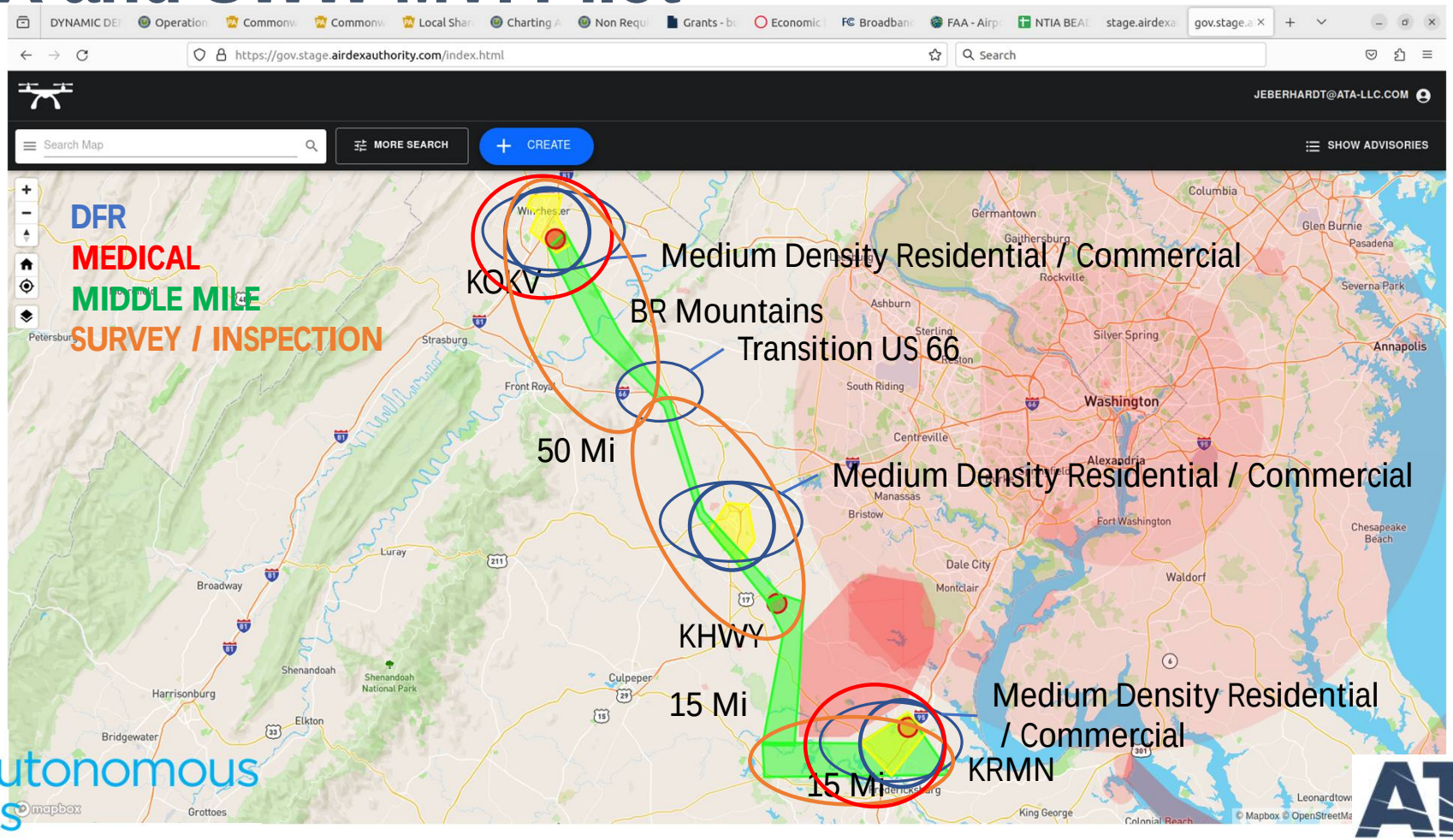
FIX and SWW MVI Pilot

FLIGHT INFORMATION EXCHANGE



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