

Uber Elevate

Panel on Challenges of Urban Air Mobility Airspace



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Airspace Integration Challenges

- Airspace access
- Communication
- Controller and pilot workload
- Separation and surveillance
- Security
- Skyport capacity
- Throughput
- Multimodal trips
- Noise and acceptability
- Vehicle mix

Airspace Access for Urban Air Mobility (UAM)

Controlled Airspace: Air Traffic Management (ATM)

Safe, human centered
FAA regulates
FAA provides air traffic services

Approach:
Segregation of UAM operations
through airspace corridors and
carveouts

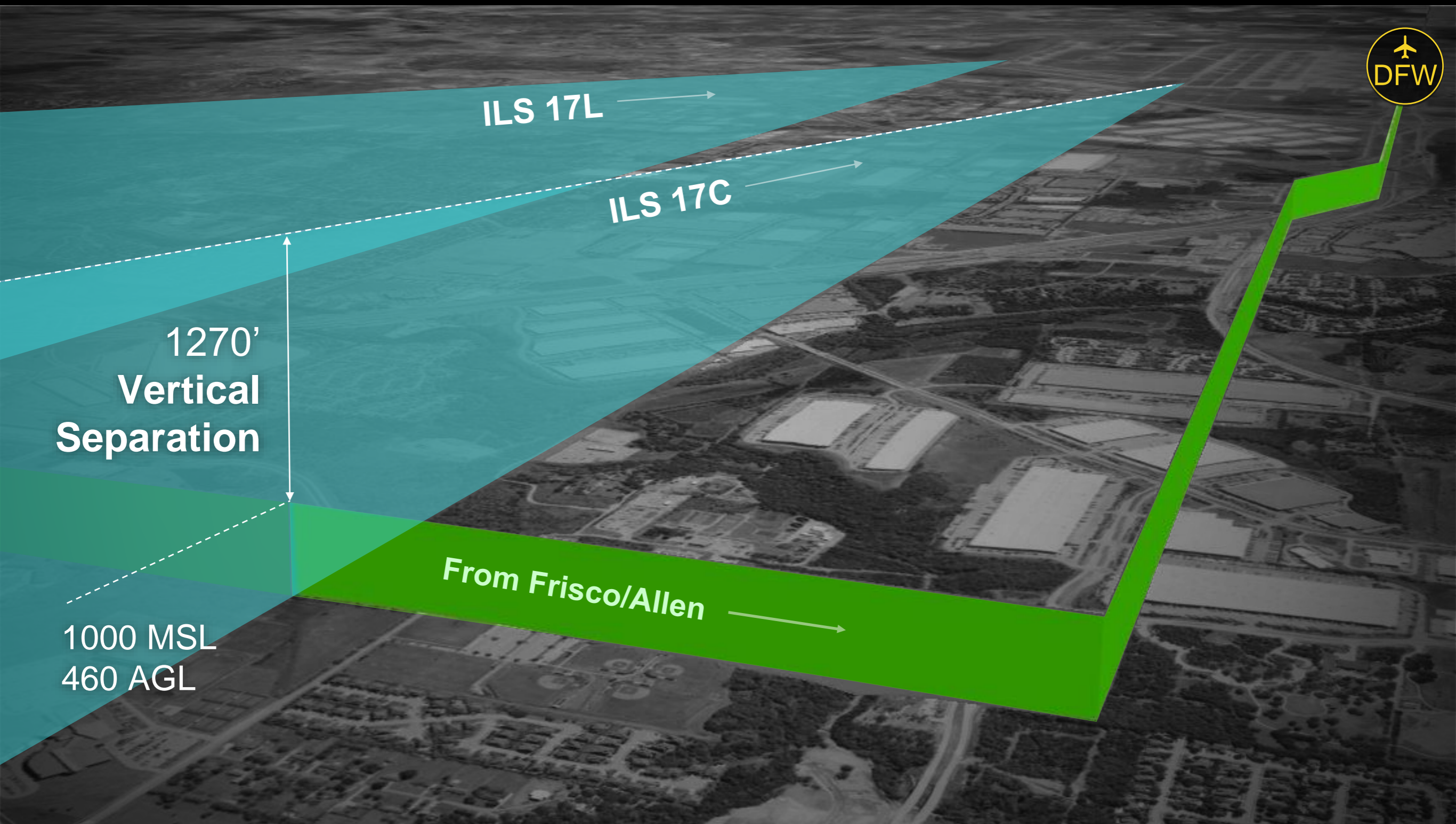


Uncontrolled Airspace: UAS Traffic Management (UTM)

Under development
FAA regulates
Industry provides air traffic services

Approach:
Integration of UAM operations
through network services and
information sharing

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ILS 17L

ILS 17C

From Frisco/Allen

1270'
Vertical
Separation

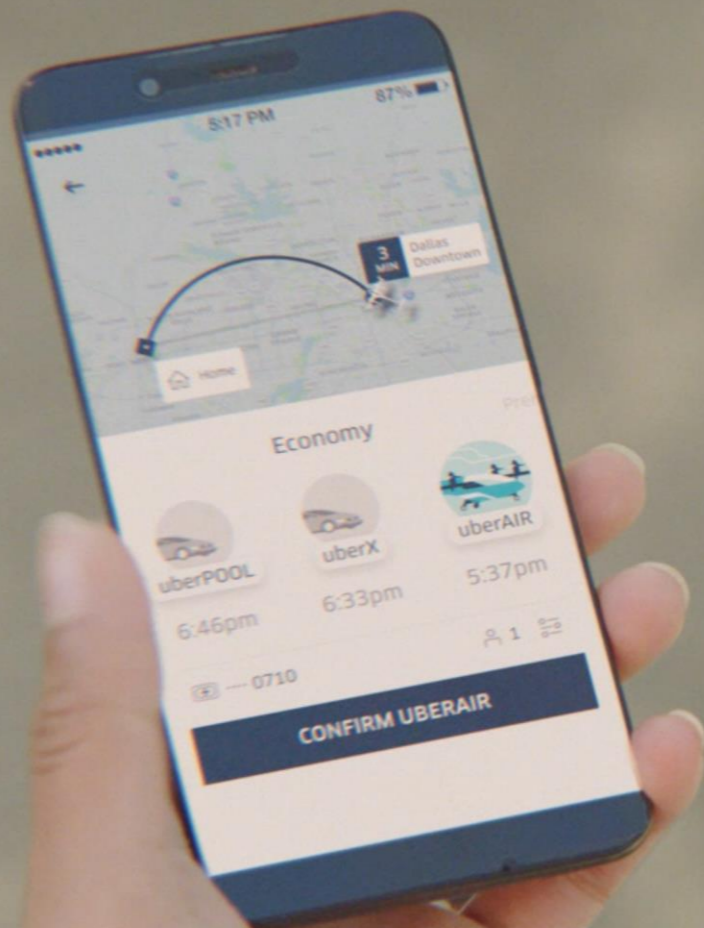
1000 MSL
460 AGL



Airspace Integration Principles

- **Safe** multiple safety layers: network, aircraft, pilot
- **Secure** built-in security, threat monitoring and response
- **Predictable** known routes, corridors and skyports
- **Cooperative** flight intent shared across the network
- **Self-managed** avoid burdening air traffic control
- **Scalable** service-oriented API-based approach
- **Reliable** ultra-high completion rate of confirmed flights





Push a button
Get a flight

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Thank you

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