Transportation in the Third Dimension
Preparing for On-Demand Aviation Services

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The Future is Here
On-Demand Aviation Services

• Optimizing the 2D World
• Going Underground
• …and in the Air
eVTOL
Why?

- Faster
- Safer
- Cleaner
- Reliable
- Less Costly
Why?

• Faster
  – 150-200 mph
  – Up to 2,000 feet altitude
  – 60 miles range per single charge
  – 5 minutes to recharge
  – Humans to Machines

• Safer
• Cleaner
• Reliable
• Less Costly
Active Aurora
Currently 42 RSUs:
• Rural Fwy
• Urban Expwy
• Urban Arterial
Why?

• Faster
• Safer
  – FAR Part 135 for Commuter/On-Demand Flights
  – 2x Fatalities per Passenger Mile than Vehicles
  – eVTOL Goal: 2x Safer than Vehicles
• Cleaner
• Reliable
• Less Costly
Why?

• Faster
• Safer
• Cleaner
  – e for Electric (eVTOL)
• Reliable
• Less Costly
Why?

- Faster
- Safer
- Cleaner
- Reliable
  - No Congestion
  - Incidents, Weather, Humans!
- Less Costly
Why?

• Faster
• Safer
• Cleaner
• Reliable
• Less Costly
VTOL Cost Breakdown

VTOL battery costs (not included above) are assumed to be $56K (Initial), $28K (Near-Term), $14K (Long-Term). Dealer Markup is only shown for R-44 helicopters.
On-Demand Aviation: Planning & Integration Considerations
200 People in 12 SAVs

FAA to Fly Cities to Land

- Technology
- Regulatory
- Policy
- Partnerships
- Infrastructure Planning, Design and Integration
- Operations and Maintenance
QUESTIONS?

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