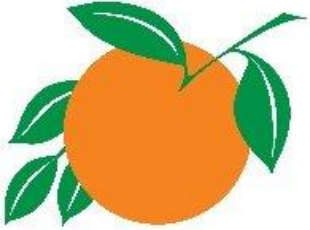


ORANGE



COUNTY

F L O R I D A



Orange County Advanced Air Mobility Feasibility Study

June 30, 2026

Board of County Commissioners
Discussion Item

AGENDA

- Overview
- Orange County Advanced Air Mobility (AAM) Feasibility Study
- Requested Action

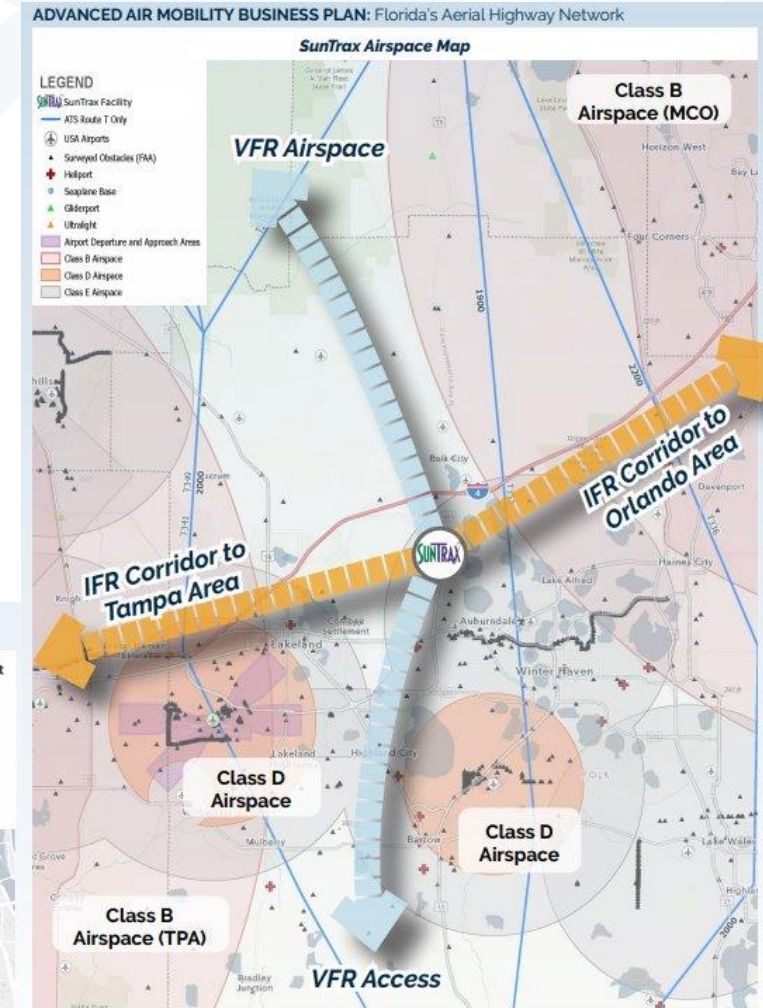
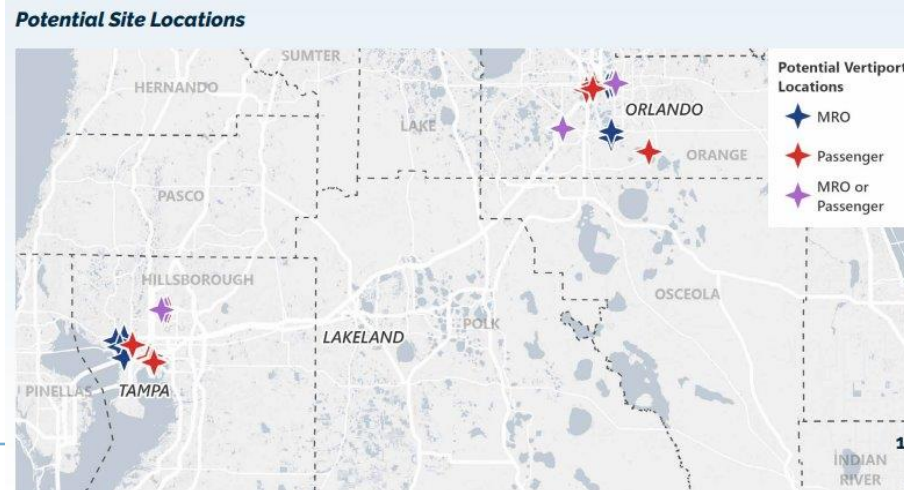


Source: FDOT 2025.

OVERVIEW

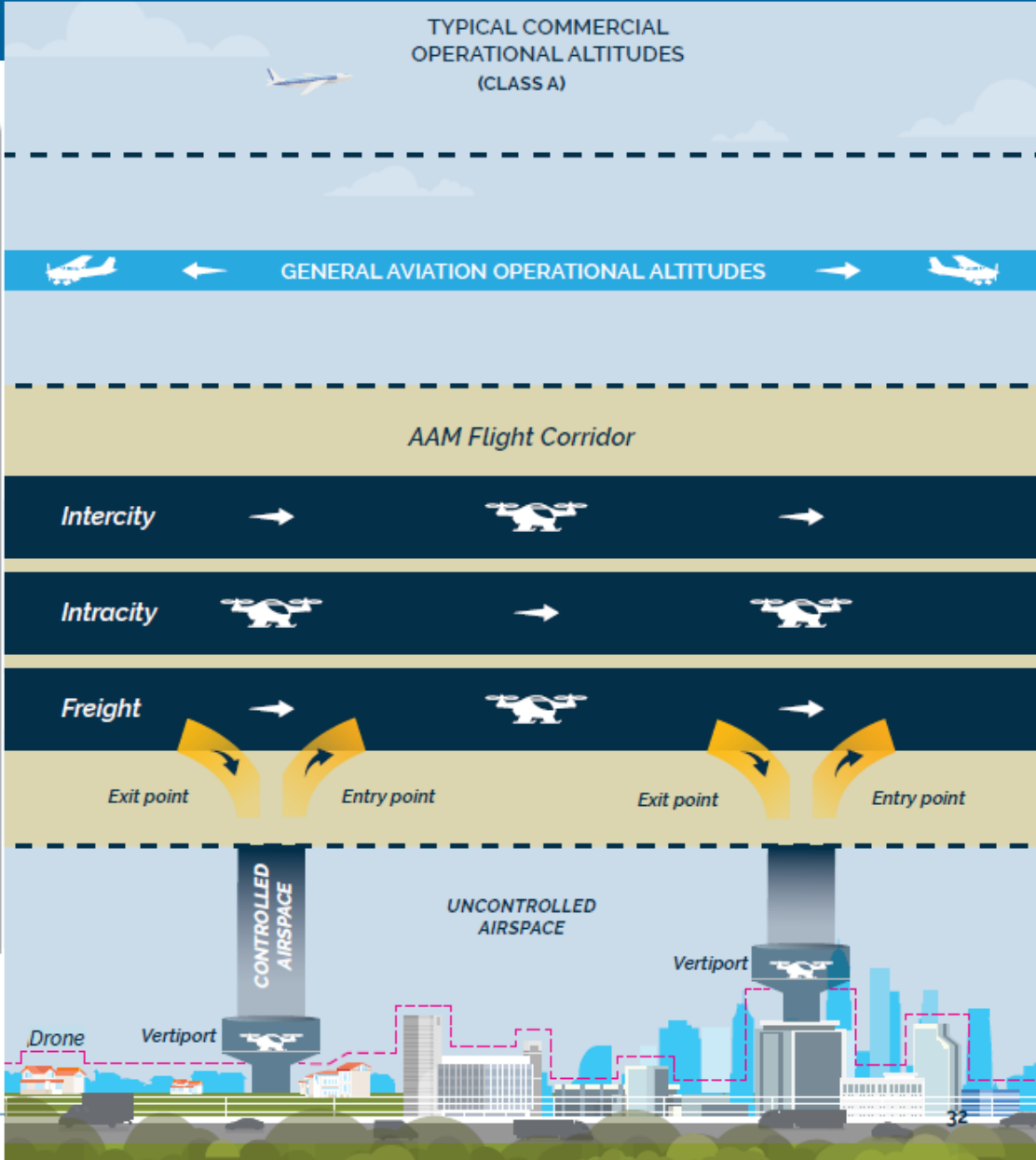
Advanced Air Mobility (AAM) in Central Florida

- FDOT part of USDOT pilot - AAM operations starting this year.
- Greater Orlando Aviation Authority planning related facilities and regional networks.
- County working on several AAM readiness efforts based on agency and market interest.
 - Board of County Commissioners presentation August 5, 2025



OVERVIEW

AAM COMPONENTS	FEDERAL GOVERNMENT	STATE GOVERNMENT	LOCAL GOVERNMENT	INFRASTRUCTURE DEVELOPERS	SERVICE PROVIDERS
AIRSPACE	X				
FLIGHT SCHEDULING					X
VERTIPORT INSPECTIONS		X			
LAND USE COMPATIBILITY PLANNING			X		
PILOT / OPERATOR REGULATIONS	X				
COMMUNITY ENGAGEMENT			X	X	X
STATEWIDE AAM COORDINATION		X			
UTILITY COORDINATION			X	X	
VERTIPORT STANDARDS	X	X			
VERTIPORTS DEVELOPMENT				X	
ZONING PROTECTION			X		
AIRCRAFT CERTIFICATION	X				

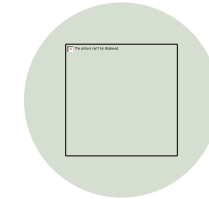


Source: FDOT 2025.

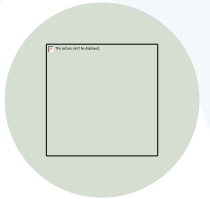
ORANGE COUNTY AAM FEASIBILITY STUDY

Study Assessment

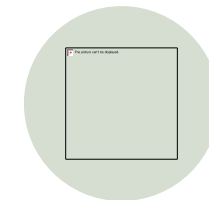
- Identify most suitable subareas for vertiports based on land use, zoning, and other factors.
- Review regulations and resources for development review.
 - Airspace exclusively regulated by the Federal Aviation Authority (FAA)
 - County exempts aviation-related noise from regulation, if conducted in accordance with applicable laws
- Determine parcels that allow vertiports under current Code:
 - **653 parcels** - By Right
 - **4,355 parcels** - Special Exception



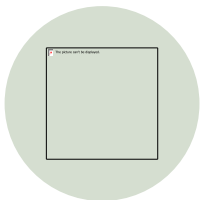
LAND USE



CONNECTIVITY



ENVIRONMENTAL

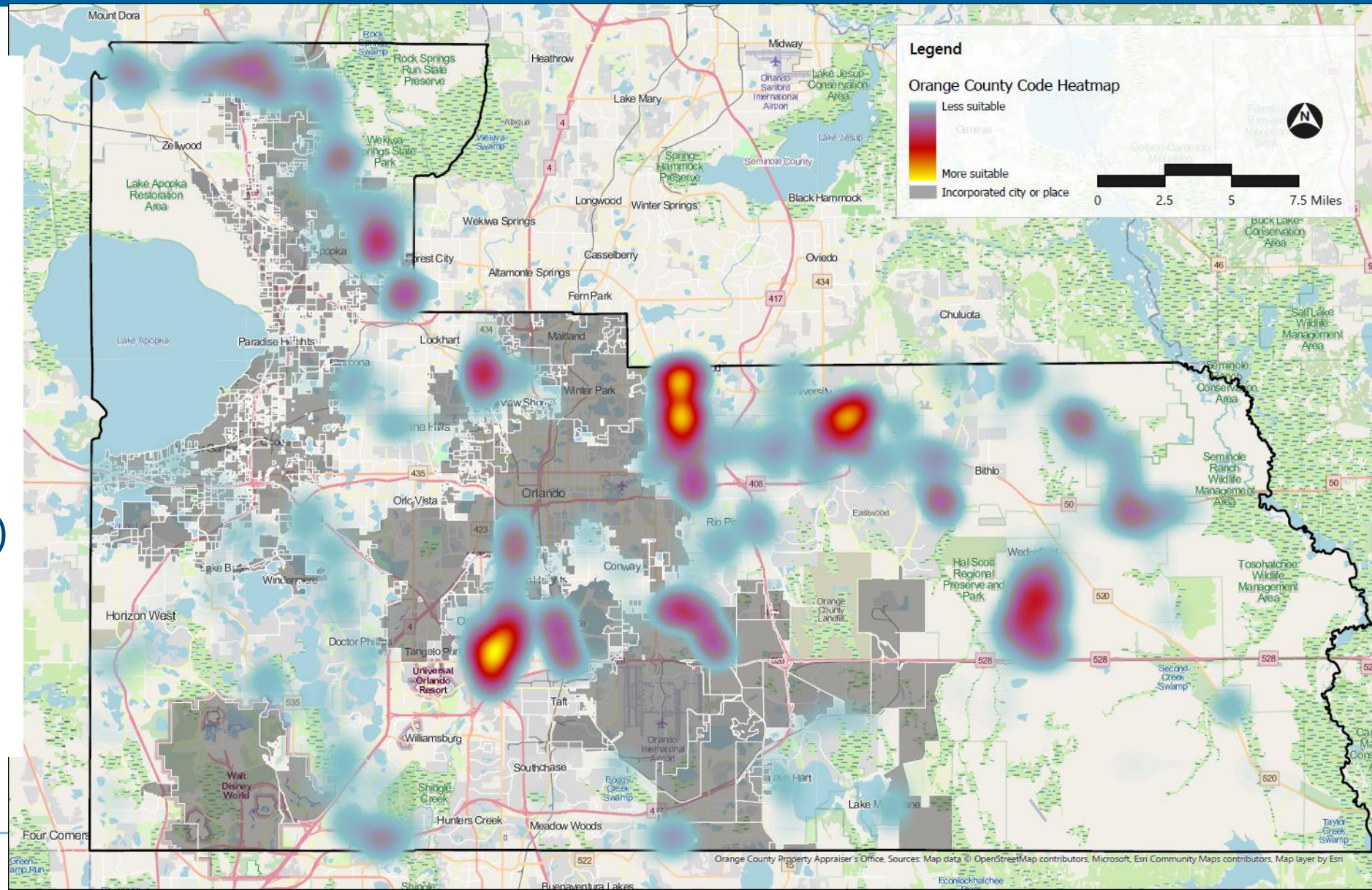


OTHER

ORANGE COUNTY AAM FEASIBILITY STUDY

Suitability Analysis – Subareas

- South of UCF / Central Florida Research Park
- South of Oak Ridge (Sand Lake Road / Orange Blossom Trail)
- Northwest Orange County

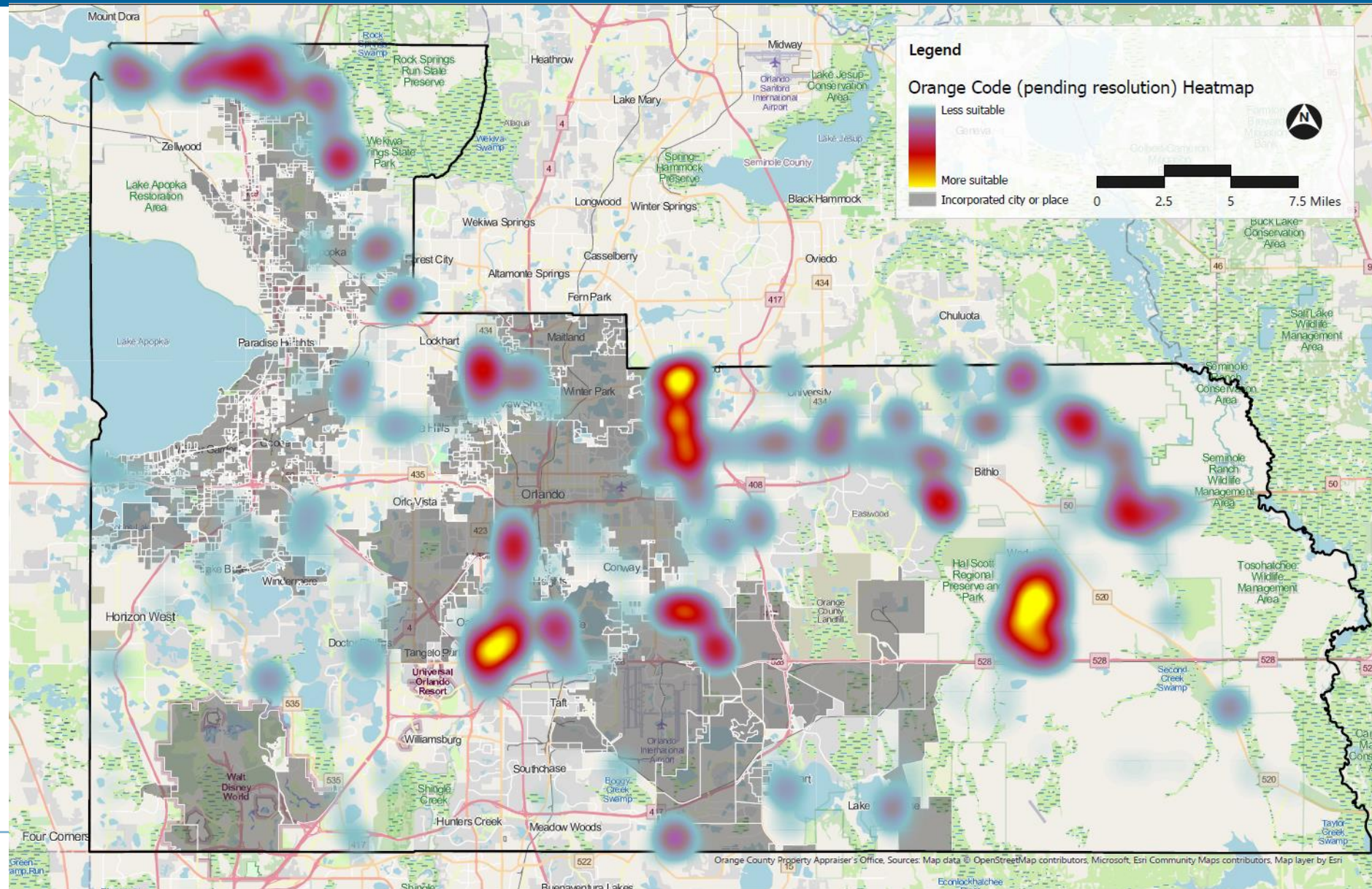


ORANGE COUNTY AAM FEASIBILITY STUDY

Suitability Analysis – Orange Code

When adopted, increases potential vertiport sites:

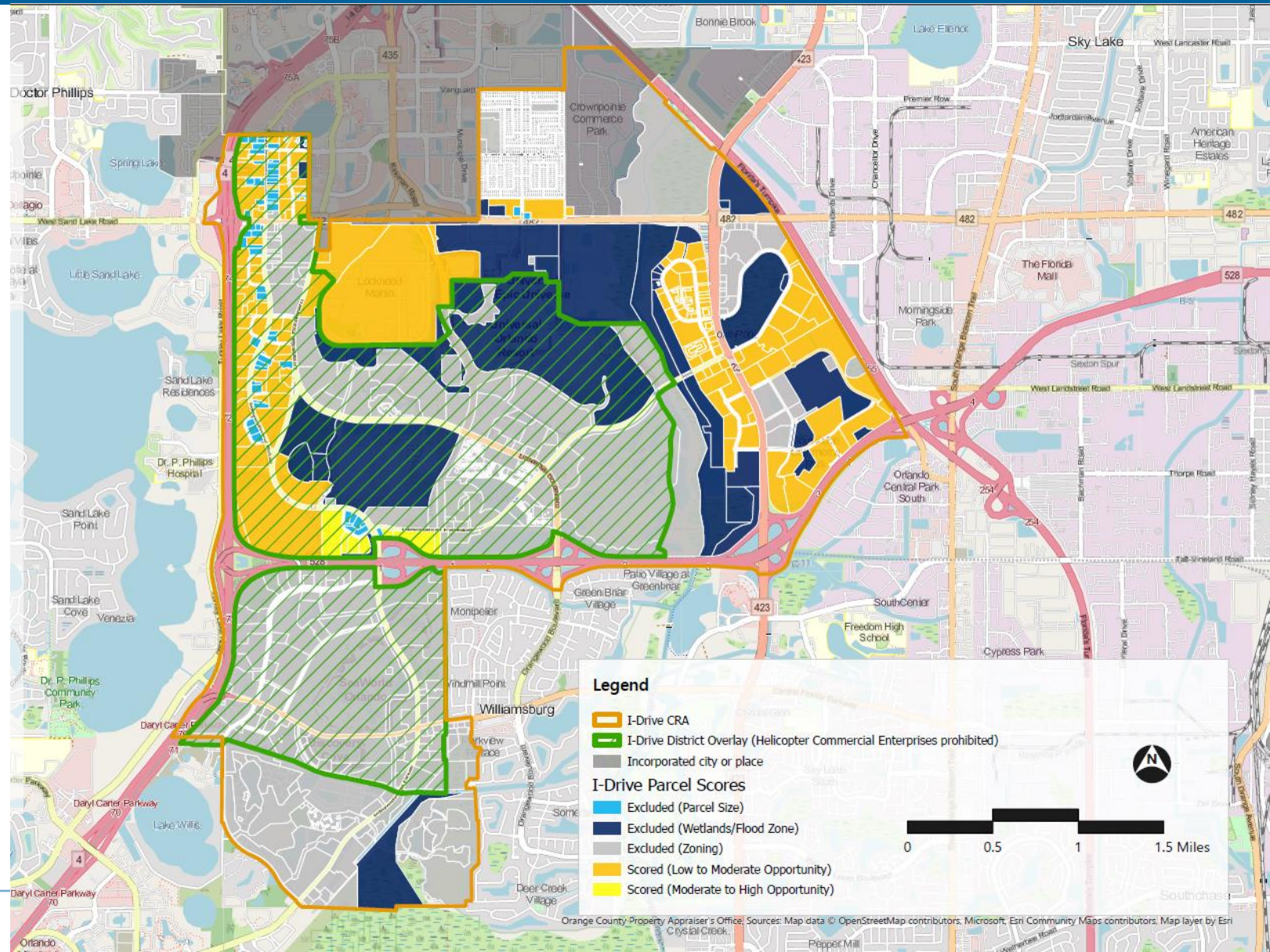
- **1,140 parcels** permitted with additional standards
- **7,520 parcels** permitted by Special Exception



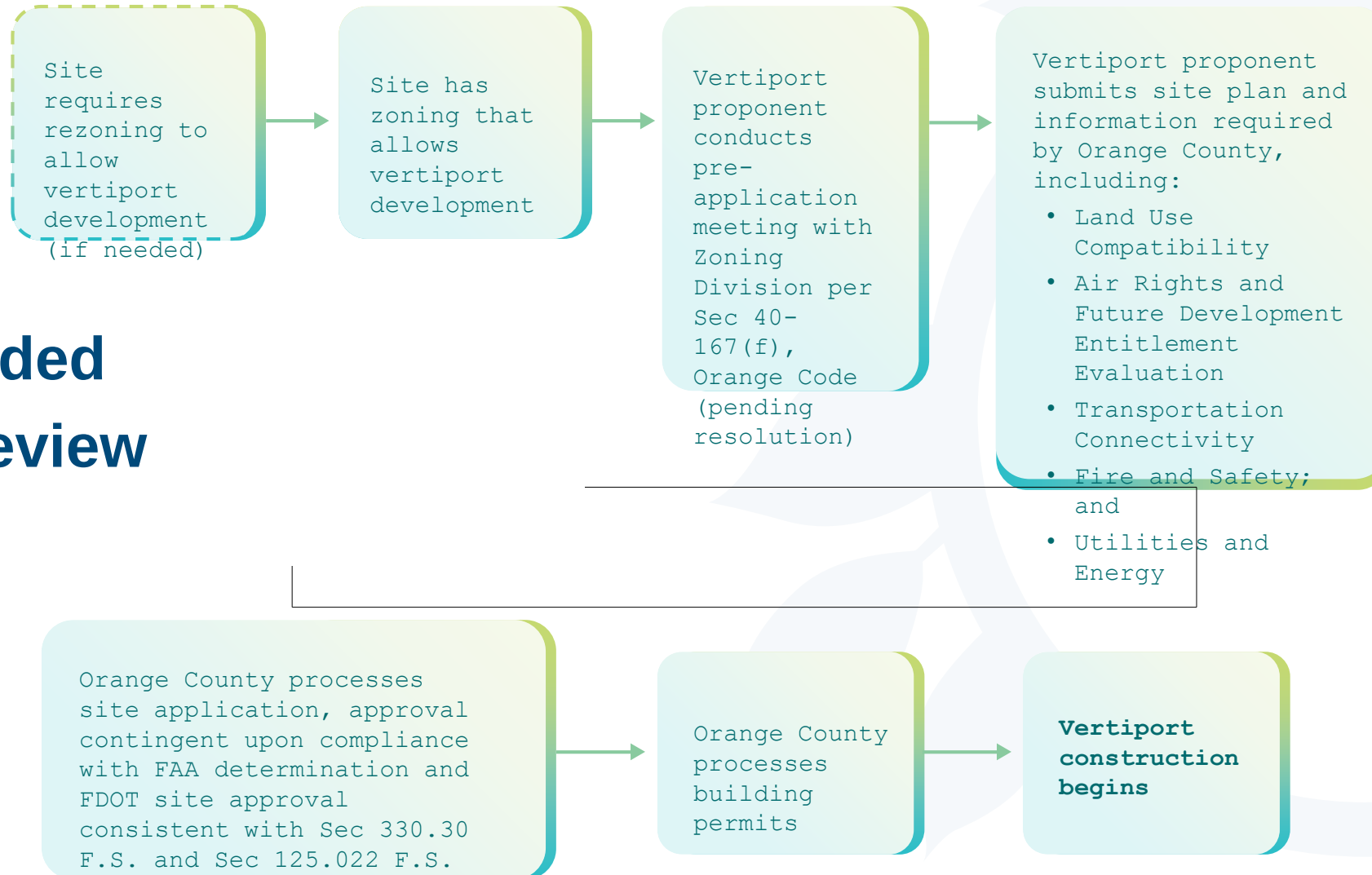
ORANGE COUNTY AAM FEASIBILITY STUDY

Suitability Analysis – International Drive CRA

- Multiple subareas show potential vertiport suitability based on existing zoning and connectivity metrics
 - Destination Parkway / S. John Young Parkway
 - Lockheed Martin
 - South of Tangelo Park
- I-Drive District Overlay Zone restricts AAM operations for majority of I-Drive CRA



ORANGE COUNTY AAM FEASIBILITY STUDY

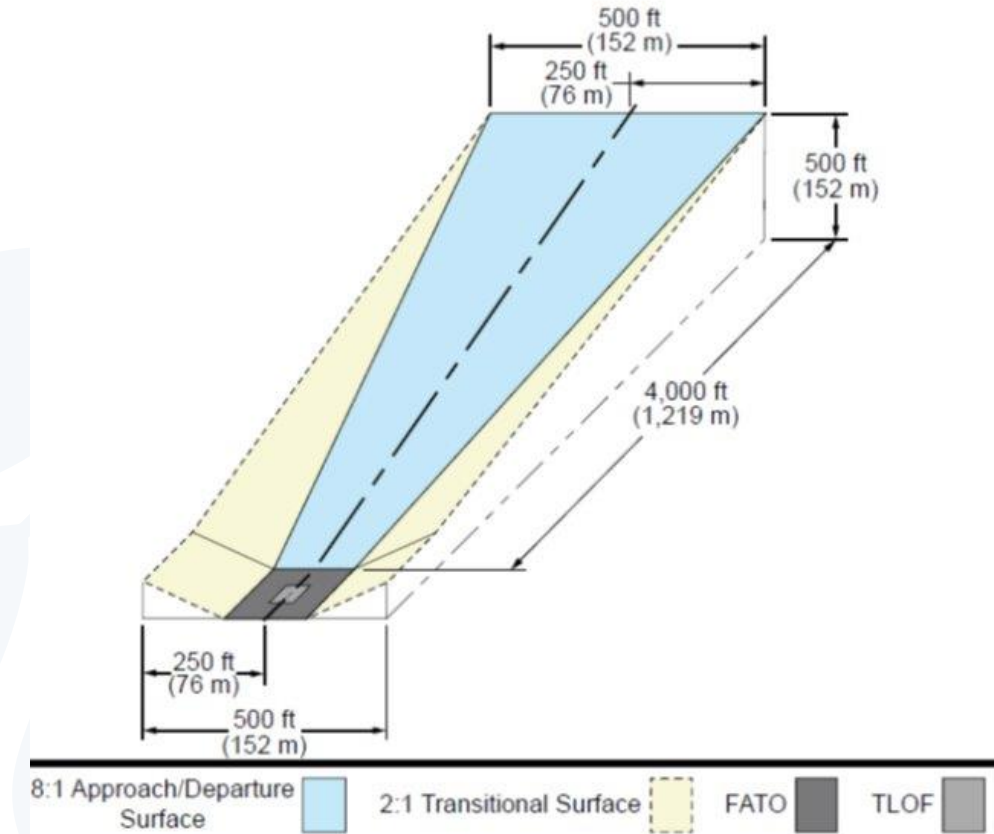


Recommended Vertiport Review Process

ORANGE COUNTY AAM FEASIBILITY STUDY

Recommendations

- Land Use Compatibility
 - Require public meetings and notification at least **1 mile** from proposed vertiport site.
 - Coordinate with FAA, FDOT, and GOAA, including near theme parks and sensitive uses.
 - Ensure vertiports support County's long-term growth management objectives.
- Air Rights Evaluation
 - Enhance FAA review of current building obstructions to evaluate effects on future development potential and sensitive uses.



ORANGE COUNTY AAM FEASIBILITY STUDY

Recommendations

■ Transportation Connectivity

- Require traffic study and anticipated eVTOL trips and passenger counts (daily and annual).
- Determine need for micromobility zone, shuttle service, or other enhancements based on demand.

■ Fire and Safety

- Require Fire Safety Plan and Hazardous Materials Management Plan.
 - NFPA 400 Hazardous Materials Code
 - NFPA 418 Standards for Heliports and Vertiports

■ Utilities and Energy

- Require Utility Capacity Analysis for projected demand.
- Require coordination with utility provider (Duke, OUC).

REQUESTED ACTION

Accept the findings and recommendations of the Orange County Advanced Air Mobility Feasibility Study. All Districts.

Orange County Advanced Air Mobility (AAM) Feasibility Study

Feasibility Analysis and Recommendations



PREPARED FOR



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June 2026