



CENTRAL FLORIDA TSM&O CONSORTIUM MEETING SUMMARY

Meeting Date: April 3, 2025 (Thursday) **Time:** 10:00 AM – 12:00 PM

Subject: TSM&O Consortium Meeting

Meeting Location: FDOT District Five RTMC (4975 Wilson Rd., Sanford, FL 32771) and Teleconference

I. OVERVIEW

The purpose of this recurring meeting is to provide an opportunity for District Five FDOT staff and local/regional agency partners to collaborate on the state of the TSM&O Program and ongoing efforts in Central Florida. Jeremy Dilmore gave a short introduction and outlined the meeting agenda.

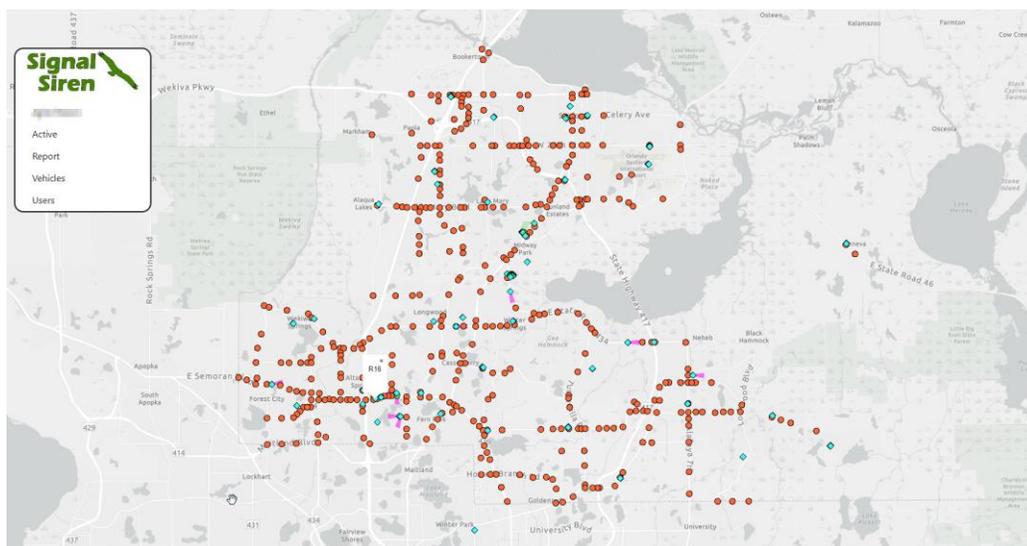
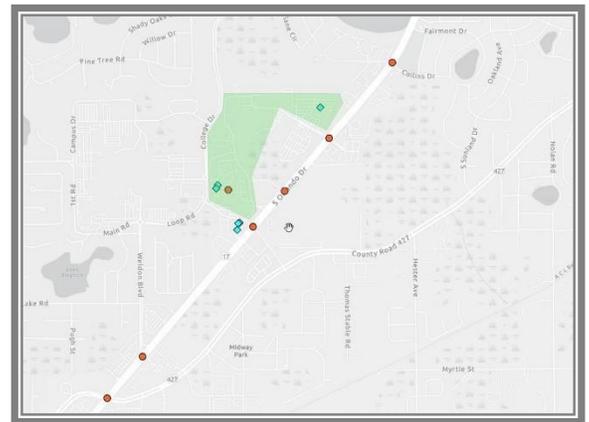
II. FDOT – SIGNAL SIREN

Aurelio Giovinazzo (AECOM) presented on District Five’s pilot project enabling Emergency Vehicle Preemption (EVP) with existing traffic signal infrastructure and central software.

- Overview
 - Provides green lights on-demand for first responders based on status of their emergency lights
 - Currently configured for 421 signals and 160 vehicles (38 active trucks)
 - Operates entirely via Automated Vehicle Location (AVL) and District Five ATMS; no signal-side hardware needed
 - Testing signal controller and management dashboard for ongoing verification
- How it works
 - Vehicle position, heading, and speed are reported to central software every second
 - A “cone” of likely future positioning is calculated and used to determine signals in the vehicle’s path
 - The signal approach is referenced via SIIA and a standard preemption request message is sent to the controller



- Central software monitors vehicle position until the preemption can be rescinded
 - Controller will return to scheduled plan after the preemption is rescinded
- Seminole County Deployment
 - Use the vehicle’s mobile router to provide sub-second GPS location data
 - Always on when vehicle is on
 - When vehicle is moving, virtual “cone” is turned on
 - API connection to FDOT District Five central server
 - Provides vehicle status (lights on / sirens on)
 - Central server monitoring for particular vehicle status
 - Input Relay monitored by central server
 - Monitor 12v output from light bar
- EVP deployment can be customizable to operation needs and limitations
 - Monitoring tools, operator notifications, dashboard enhancements, testing/non-activation zones
- Requirements
 - Vehicle connectivity via an AVL-enabled device
 - Intersection inventory completed in SIIA
 - Lat/Long at center of signalized intersection
 - ATSPM ID
 - IP address
 - SNMP port with community string
 - Approach lane geometry
 - Signal heads with phase per lane
 - Preemption database configured in signal controllers
 - Signal controller internal communication back to District Five



- Current status
 - During March 2025, there were 22,631 preempts requested, with an average duration of 29.3 seconds

III. INTEGRATED CORRIDOR MANAGEMENT (ICM) OPERATIONS

Aurelio Giovinazzo (AECOM) and Caitlyn West (Metric) led a presentation on the ICM operations at the District Five Regional Traffic Management Center (RTMC).

- RTMC
 - 44,994 sq. ft. state-of-the-art, hurricane-ready facility
 - FDOT co-located with FHP and FWC
 - Focused on using TSM&O strategies to improve safety and reduce congestion within the existing system
 - Traffic & Incident Management for 795 miles of state roadway
 - Staffed 24/7, 365 days a year
- ICM Operations - a holistic approach to managing congestion in the area; incidents are managed on both freeways and arterials
 - Active Traffic Management (freeway and arterial)
 - Traveler Information
 - Incident Management
 - Emergency Management
 - Two ICM Operations contracts in District Five
- Lauren Pearson is the RTMC Manager and oversees these two ICM Operations contracts
 - Metric Engineering handles operations for Brevard, Volusia, Flagler, Seminole, Orange, Osceola, and Lake County
 - AECOM handles operations for Sumter, Marion, and Lake County, including Turnpike
- SunGuide includes several subsystems to support traffic operations activities
 - Event Management
 - Allows users to track incidents within the SunGuide software
 - Users can create an EVENT detailing incident information, publish incident information to the FL511 system, create a predefined plan for DMS messaging, check responder status, and monitor incoming system alerts
 - Events are stored within the SunGuide database for future reporting purposes; reports are often run to conduct post-incident reviews
 - Transportation Sensor Subsystem (TSS)
 - Produces a TSS alarm whenever speeds or occupancy fall below a configured threshold
- Dynamic Message Signs (DMS)
 - Whenever certain types of incidents occur, the DMS throughout our network can be used to provide details regarding current road conditions. Examples include:
 - Incidents with lane blockage,
 - states of emergency, and
 - Silver / Purple / AMBER / Missing Child / LEO Alert activation
- Freeway Operations Communications

- Notifications/Communicatinos are provided via FL511 and third-party data sharing platforms like Waze, Google Maps, and Apple
- Arterial Timings and Operations
 - Third parties can reach out for resources and assistance
 - Issues can be identified by resident calls
 - RTMC can typically visually monitor corridor performance remotely if FDOT has connectivity and CCTVs
 - Everything contributes to corridors that run more smoothly
- Managed Lanes
 - There are two types of ramps used to access I-4 Express
 - 14 slip ramps to merge in and out of the general use lanes and express lanes
 - 14 direct connect ramps that allow direct access from express lanes to surface streets



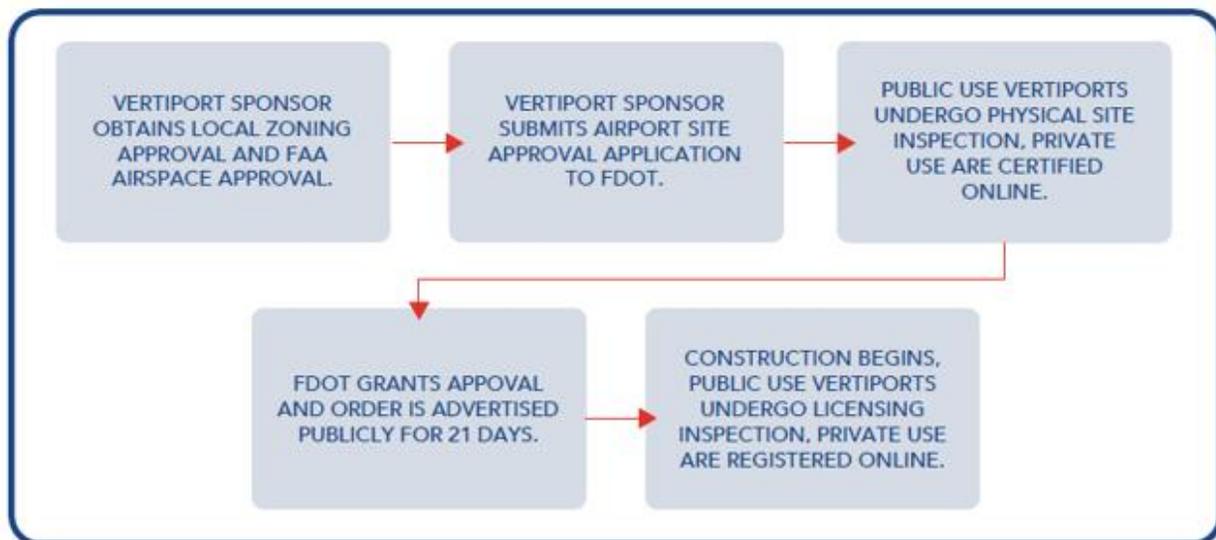
- First responders have access to emergency access gates (EAG) to enter/exit express lanes
- Traffic Incident Management
 - Incident Management / Dispatch
 - Road Rangers – approximately 5,500 RR assists per month
 - Asset Management
 - Structures
 - Rapid Incident Scene Clearance (RISC)
 - Safe Tow
 - Special Events
 - Emergency Response and Support
- Wildlife Traffic Management
 - In 2024, there were 1,985 wildfires and 9,622 controlled burns within District Five
 - In 2025, there have been 51,455 acres burned across 1,096 wildfires
- Unmanned Aircraft Systems (UAS)
 - Drones are used to meet many transportation needs, including active crashes, structural/environmental issues, active construction, and emergency management

IV. ORLANDO ADVANCED AIR MOBILITY – UPDATE

Jacques Colon (City of Orlando) provided an update on the City of Orlando's Advanced Air Mobility (AAM) efforts.

- What is Advanced Air Mobility?
 - Electric Vertical Takeoff and Landing (eVTOL) vehicles, with passengers and cargo flying at low altitudes
 - Can fly roughly 150 miles on a single charge, depending on the technology, traveling as fast as 150mph to 200mph
 - Mature AAM network will consist of vertiports on rooftops or garages in urban settings, hospitals, airports, and other major multimodal transportation hubs in the Central Florida region.
- eVTOL vehicles look like traditional helicopters, but typically have multiple propellers; most eVTOL vehicles in development have a 200-mile range with up to 8 passengers
- Orlando's Mobility Strategy – Develop a plan to engage private sector eVTOL companies to connect activity centers within the Central Florida region (city taxi model) and connect Orlando to other cities within the southeast
 - Why is it important:
 - Cities and counties must be at the forefront of the AAM conversation
 - No one knows the City better than ourselves; no one is better positioned to understand potential impacts from AAM
 - AAM provides enhanced mobility and transportation alternatives
 - AAM is regional in nature and must be considered with regional partners
- Project Timeline
 - Phase One
 - Technical Memos on Regional Transportation and Environmental Challenges/Opportunities
 - Economic Impact Study of Geico garage location
 - NASA Community Planning Annex
 - Stakeholder Outreach and Regional Visioning
 - Phase Two
 - Zoning and Regulations Review
 - Agency Coordination
 - Phase Three
 - Travel Demand Model
 - Vertiport Target Locations
 - Additional Stakeholder Outreach
- Economic impacts (Phase 1)
 - There will be positive economic benefits (employment, taxes, GDP, etc.) but it is too early for the City to invest in infrastructure without a partner
 - Currently, the potential costs (\$30M capital cost; \$0.6-1M in parking revenue loss) outweigh the direct fiscal impacts to the City (\$4.3M tax revenue over a 20-year period, estimated by IMPLAN)

- To move forward, City should negotiate an agreement with an AAM operator
 - This agreement would help the City understand the anticipated ROI before making capital investments
- Zoning and Regulations Review
 - FDOT has provided a list of Recommended Best Practices for AAM
 - Assign a lead staff member for AAM
 - Review FDOT state of AAM
 - Review zoning ordinances
 - Map out aeronautical use facilities
 - Identify compatible land uses
 - Establish a benchmark for existing ambient noise levels
 - Establish waste, hazmat, and pollution prevention requirements
 - Establish AAM policies that put the community first
 - Update Zoning ordinances
 - Currently, Orlando's zoning allows for vertiports as a conditional use in certain zoning areas, but no zoning areas permit vertiports outright
 - FDOT's Airport Site Approval Process (summarized)

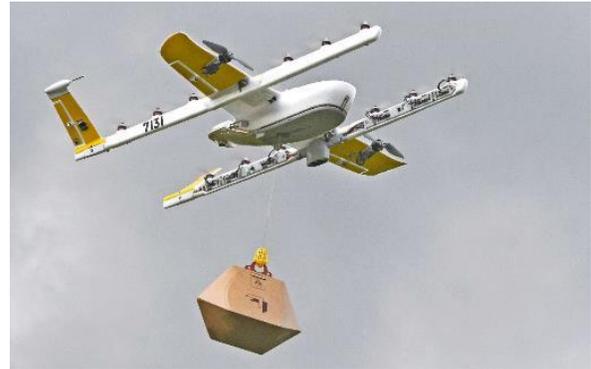


- Key Questions remaining
 - How do we project possible demand and preferred vertiport locations?
 - Who owns and operates vertiports?
 - How do we ensure safe operations and integrations into existing airspace and ground transportation networks?
 - What happens when we move out of the regulatory phase?
 - How do we regulate, measure, enforce external impacts (e.g., noise/visual pollution)?
 - How does approval of a vertiport affect property rights?
 - What type of information/data sharing will be required?

V. DRONE DELIVERIES IN CENTRAL FLORIDA

Jacques Colon (City of Orlando) gave a brief presentation on drone delivery services in Central Florida following a Draft Environmental Assessment.

- What was applied for?
 - FAA provided notice that Wing Aviation is seeking approval to conduct drone deliveries in Central Florida through the dissemination of a Draft Environmental Assessment (EA)
 - Wing is planning to operate drone deliveries from four Walmart stores in Metro Orlando
 - Deliveries of up to 5lbs will take place within 6 miles of each store
 - All deliveries will be automated without a human operator; drones would not need to land at any point
 - Feedback to the EA was due to the FAA on January 20, 2025
- Package Delivery Process
 1. Customer places order and selects drone delivery
 2. Staff at store prepare item for delivery, bringing it to the loading area at the “nest”
 3. Drone is sent a predetermined route and gets clearance from Wing’s system to start operations
 4. Drone lifts vertically to 23ft about ground level and waits until package is loaded to end of tether
 5. Package is reeled into the drone and the vehicle begins trip to delivery location. While in route, drone will climb to cruising altitude of 150-300ft and will travel around 59mph
 6. Drone flies predetermined route
 7. As drone approaches delivery location, it will descend to 23ft at location
 8. Drone will lower package at the customer’s property via the tether. Once package is on the ground the drone will release package and reel in tether.
 9. Drone repeats the trip and altitude adjustments to return to the nest of the next delivery
- Drone nest is typically located in parking lot, close to other delivery service area
 - Fenced area with a shipping container for drone storage
- Regulatory framework
 - Federal



- Federal government has sole approval powers for the aircraft certification as well as the certification of the company as an “air carrier”
 - Under current FAA rules, the expansion of drone deliveries into Central Florida is a major federal action requiring the approval of an EA
- State
 - Drone operations are governed by Section 330.41 of Florida Statutes
 - State has all authority to regulate the operation of unmanned aircraft systems; local agencies “may not withhold issuance of a business tax receipt, development permit, or other use approval to a drone delivery service or enact or enforce an ordinance or resolution that prohibits a drone delivery service’s operation based on the location of its drone port.”
 - In general, local jurisdictions can only enact or enforce local ordinances relating to nuisances, voyeurism, harassment, reckless endangerment, or property damage
- Remaining questions
 - Public outreach before operations
 - Emergency procedures
 - Company point of contact
 - FAA remote ID requirements
 - Package dropoff locations
- Next Steps – Wing Aviation is waiting for FAA response to EA with a goal to start operations in Central Florida in second half of 2025

VI. FLASH AWARD

Kevin Marquez (FDOT) gave a brief presentation of FDOT’s FLASH Award to Lake County Traffic Operations team members.

- This is District Five TSM&O’s recognition program for outstanding maintaining agency response to traffic signal emergencies
- Focuses on showcasing specific efforts throughout the District
- Discuss processes, best practices, lessons learned, etc.
- State Road 50 at East Avenue
- Emergency Response Details
 - February 25, 2025 at 2:52am – Lake County Traffic Operations signal on-call personnel received call about crash at subject location
 - 3:41am – staff arrives on scene to find a semi-truck had crashed into the traffic signal strain pole, electrical service panel, and ped signal
 - Shortly after arrival, County personnel began full MOT effort to close intersection, rerouting traffic through internal residential streets
 - 4:10am – County personnel activate their traffic signal contractor for emergency repairs
 - 6:00am – additional County personnel arrive to begin cleanup and continue to assist with MOT
 - 7:00am – Contractor arrives on scene but unable to begin work since truck removal and pole removal needs to be coordinated

- 9:00am – tow truck begins assessing removal plan and contractor begins to work on minor repairs and securing materials
- 9:30am – intersection turned over to traffic signal contractor to begin temporary replacement work
- 5:00pm – intersection is back online after the installation of a wood pole, new span, and generator hookup. **(Approximately 14 hours from crash to intersection reopening)**
- Refueling efforts continued for two days, when the new power service was installed
- Long term repair efforts are underway to install a permanent concrete strain pole
- Key successes
 - Experienced County personnel leading an experienced contractor
 - County personnel capable of managing large MOT needs
 - Utilizing an “on-call” contract that doesn’t require a PO or written NTP
 - Having a reliable contractor that is available 24/7
 - County worked with the contractor and provided some material, as needed
- Lessons Learned
 - Having a refueling plan for emergencies is critical
 - Coordination with FDOT for equipment is always an option

VII. NEXT MEETING

- June 5, 2025

VIII. ATTACHMENTS

- A – Presentation Slides
- B – Meeting agenda

END OF SUMMARY

This summary was prepared by David Williams and is provided as a summary (not verbatim) for use by the Consortium Members. The comments do not reflect FDOT’s concurrence. Please review and send comments via e-mail to david.williams2@dot.state.fl.us so the meeting summary can be finalized.

Welcome to the TSM&O Consortium Meeting April 3, 2025



Meeting Agenda

1. FDOT District 5 – Updates
2. Emergency Vehicle Preemption – Update
3. Integrated Corridor Management (ICM) Operations
4. Orlando Advanced Air Mobility – Update
5. Drone Deliveries in Central Florida
6. Travel-Time Tool
7. FLASH Award – Lake County
8. Current Initiatives



FDOT District Five Updates

Tushar Patel, FDOT District Five

FDOT'S Signal Siren

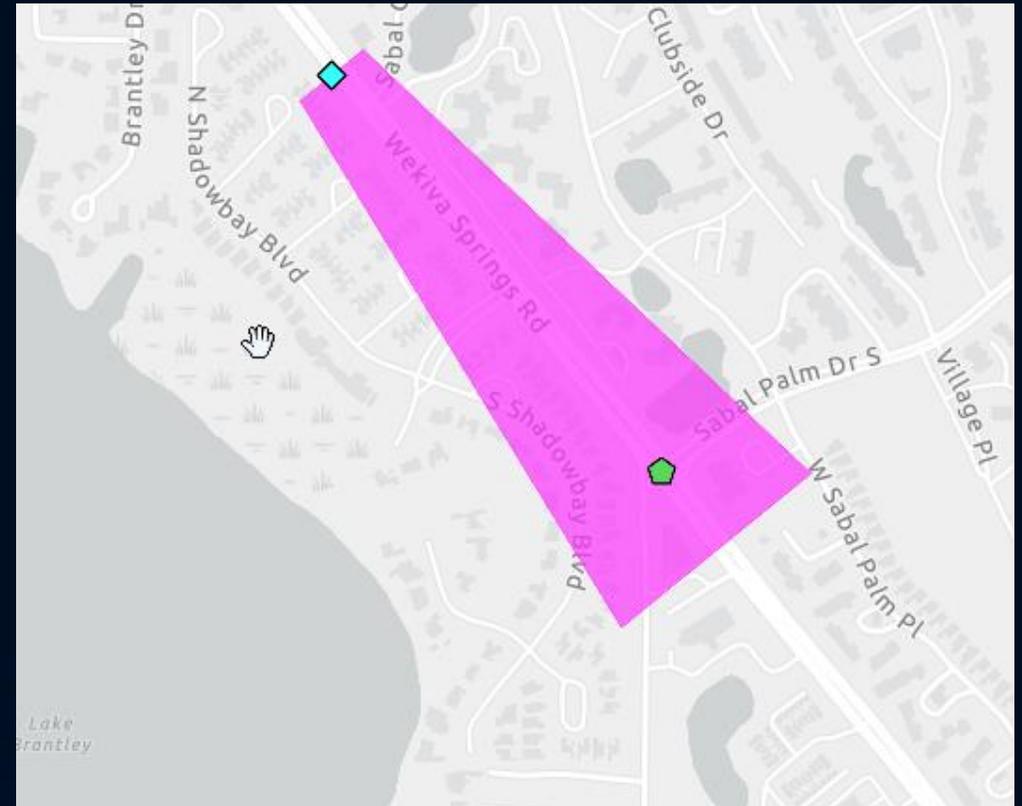
EMERGENCY VEHICLE PREEMPTION

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- Currently configured for 421 signals and 160 vehicles
 - 38 active trucks
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How it works?

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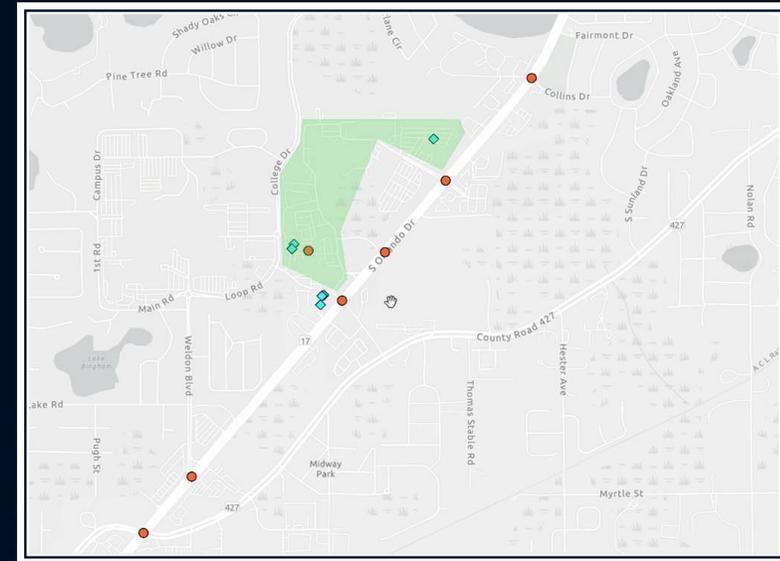


Seminole County Deployment

- Use Mobile vehicle router to provide sub-second GPS location
 - Always-on when vehicle is on
 - When vehicle is moving virtual “cone” is turned on
- API connection to FDOT District 5 central server
 - Provides vehicle status (Lights/Sirens)
 - Central server monitoring for particular vehicle status
- Input Relay monitored by central server
 - Monitor 12V output from light bar

Customizable

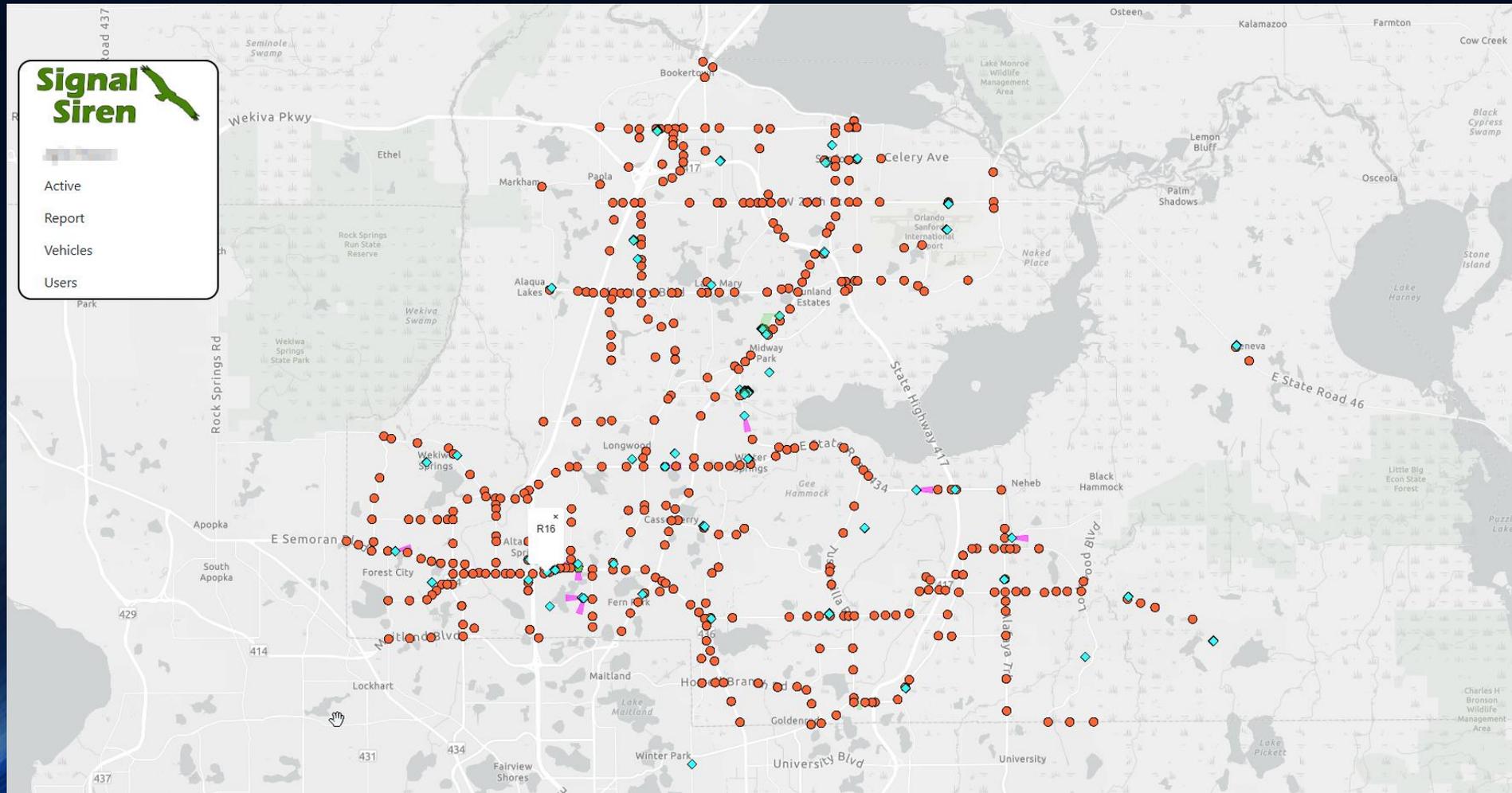
- Deployment can be customizable to operation needs and limitations
 - Monitoring tools (vehicle status)
 - Operator notification
 - Dashboard enhancements
 - Testing/non-activation zones



Requirements

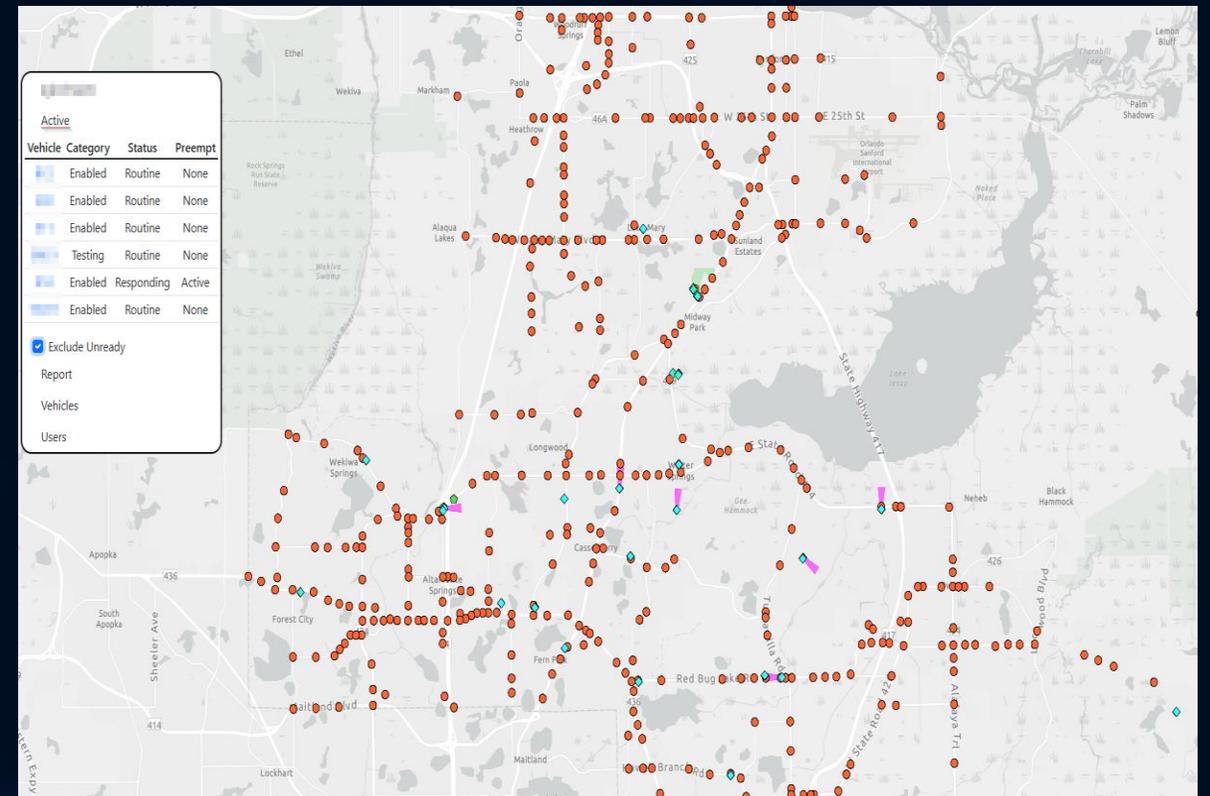
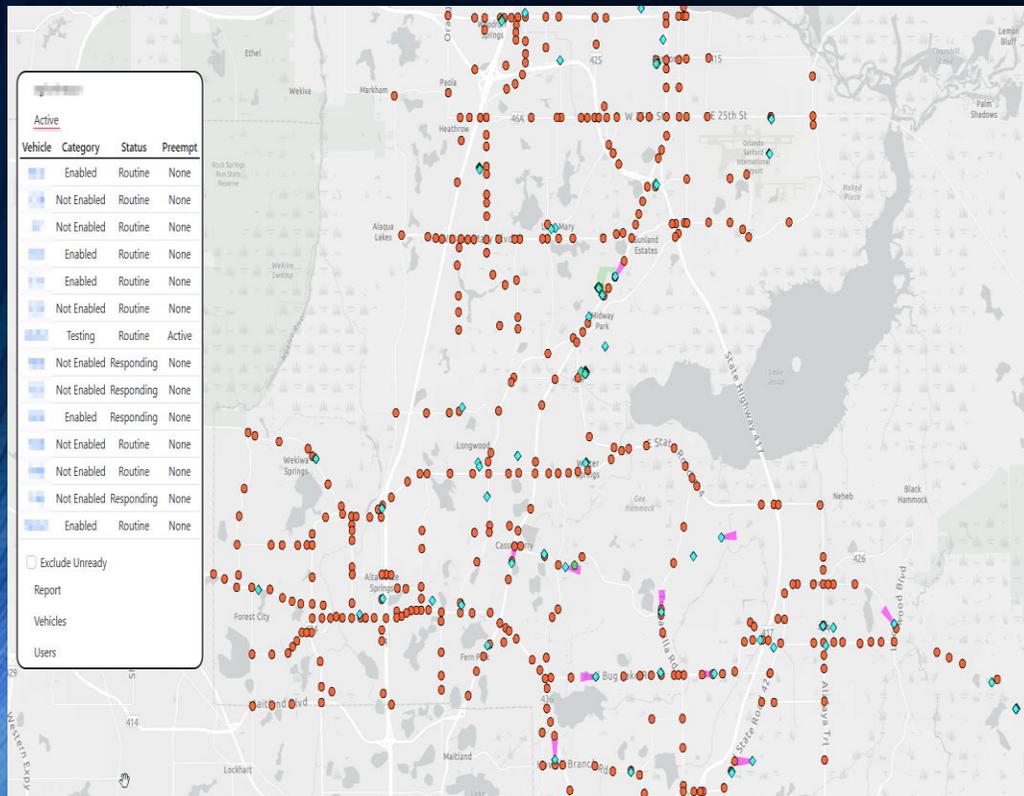
- Vehicle connectivity with a device capable of sending AVL
- Intersection inventory completed in SIIA
 - Lat/Long at center of signalized intersection
 - ATSPM ID
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 - Signal heads with phase per lane
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Signal Siren Dashboard



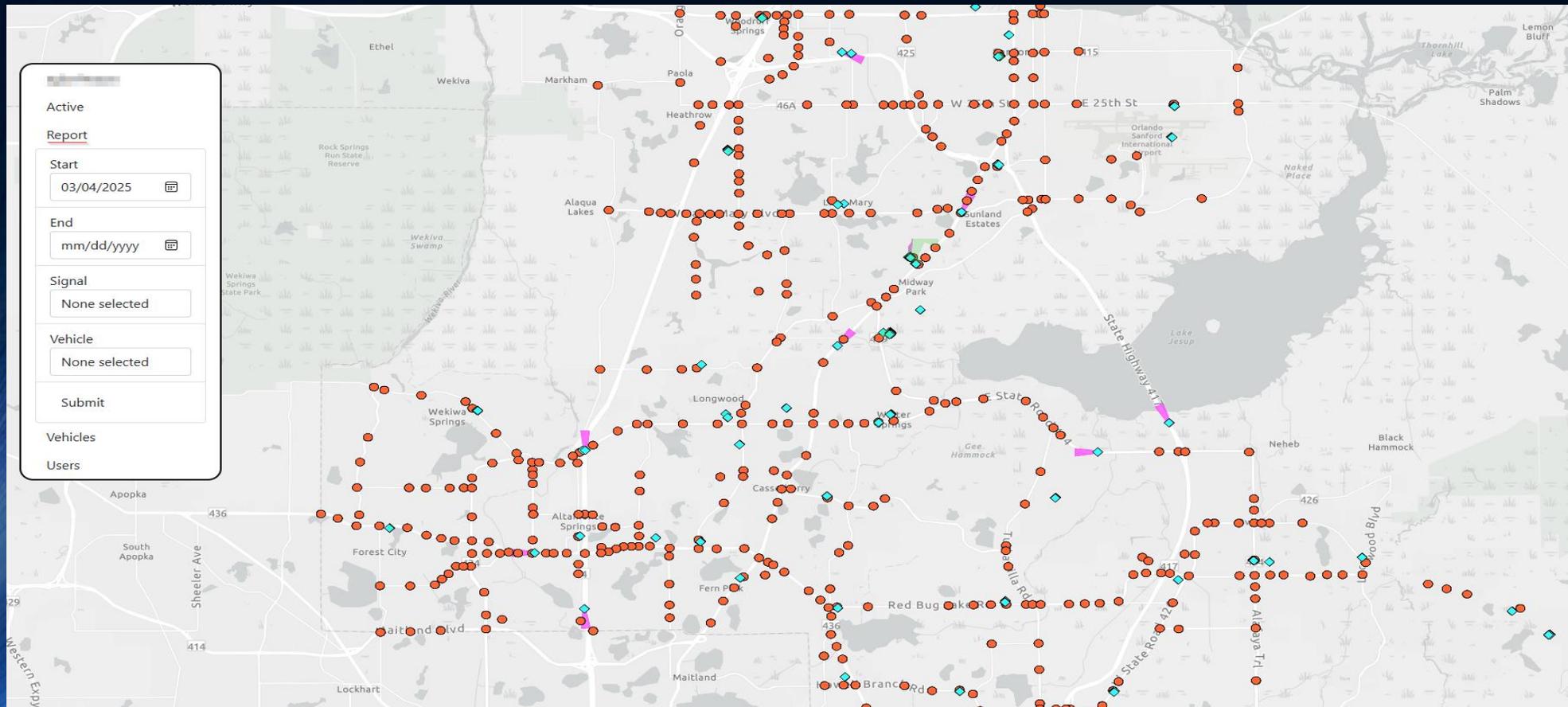
Signal Siren Dashboard

- Live Vehicle Status



Signal Siren Dashboard

- Reporting



Signal Siren Dashboard

- Vehicle Management

Active

Report

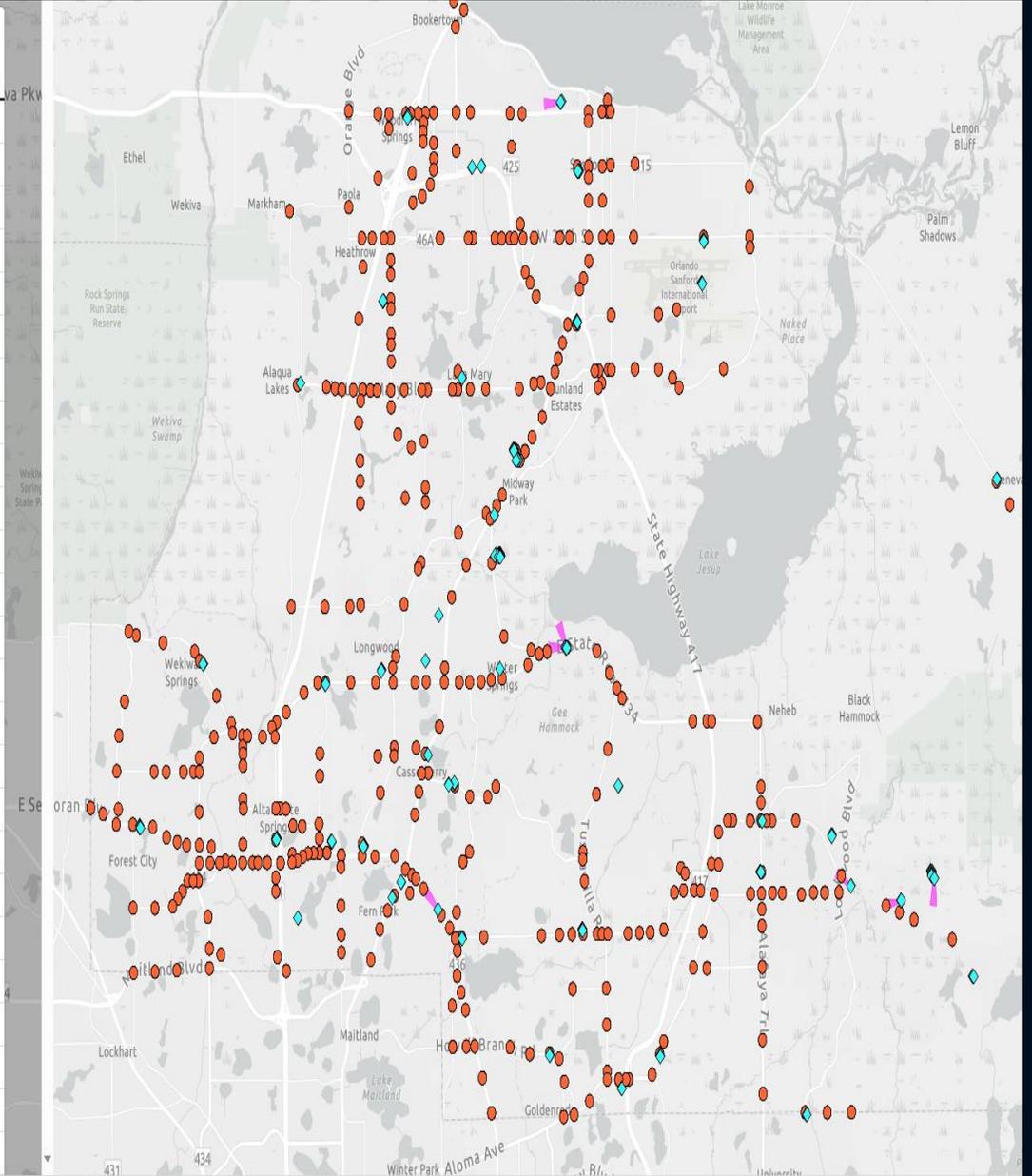
Vehicles

TAIP ID	UID	Name	Host	Input	Category
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Current Status

- March 1st – 31st
 - 22,631 Preempts were requested
 - Average duration: 29.3s

Preempts (22631)					X
Signal	Vehicle	Direction	Timestamp	Duration	
SEM		EB	3/4/2025, 12:01:08 PM	18	
SEM		EB	3/4/2025, 12:01:21 PM	34	
SEM		EB	3/4/2025, 12:01:38 PM	35	
SEM		EB	3/4/2025, 12:02:03 PM	28	
SEM		EB	3/4/2025, 12:02:18 PM	29	
SEM		SB	3/4/2025, 12:02:19 PM	34	
SEM		EB	3/4/2025, 12:02:37 PM	29	
SEM		EB	3/4/2025, 12:02:54 PM	26	
SEM		EB	3/4/2025, 12:02:54 PM	13	
SEM		WB	3/4/2025, 12:03:06 PM	43	
SEM		SEB	3/4/2025, 12:03:27 PM	28	
SEM		SWB	3/4/2025, 12:03:43 PM	49	
SEM		EB	3/4/2025, 12:03:56 PM	29	
SEM		NWB	3/4/2025, 12:03:57 PM	38	
SEM		EB	3/4/2025, 12:04:25 PM	49	
SEM		NWB	3/4/2025, 12:04:46 PM	25	
SEM		NWB	3/4/2025, 12:05:00 PM	26	
SEM		NWB	3/4/2025, 12:05:06 PM	26	
SEM		SB	3/4/2025, 12:05:14 PM	21	
SEM		NWB	3/4/2025, 12:05:17 PM	30	
SEM		SB	3/4/2025, 12:05:17 PM	43	
SEM		NWB	3/4/2025, 12:05:38 PM	30	
SEM		EB	3/4/2025, 12:06:01 PM	23	
SEM		WB	3/4/2025, 12:06:13 PM	25	
SEM		SEB	3/4/2025, 12:06:14 PM	9	



Demo



The background of the slide is a dark, semi-transparent image of a highway interchange with a city skyline in the distance. The image is overlaid with a large, curved graphic element consisting of two blue bands separated by a white band, which frames the text on the right side of the slide.

TRAFFIC OPS & THE REGIONAL TRANSPORTATION MANAGEMENT CENTER (RTMC)



REGIONAL TRANSPORTATION MGMT CENTER

- 44,994 sq ft State-of-the-Art, Hurricane Ready Facility
- FDOT Co-located with FHP Dispatch & FWC
- Focused on Transportation Systems Management and Operations (TSM&O)
 - Reduce congestion and improve safety within the existing system
- Traffic & Incident Management for 795 Miles of State Roadway
- Staffed 24 / 7 / 365





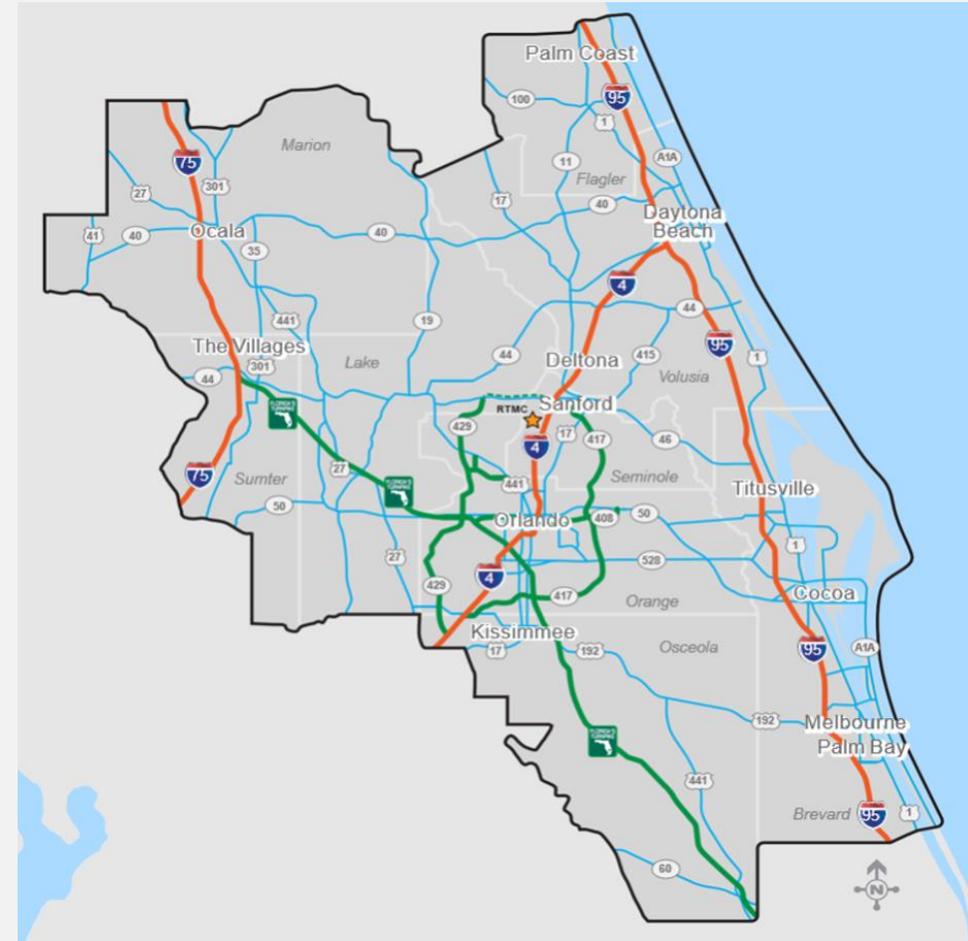
REGIONAL TRANSPORTATION MGMT CENTER





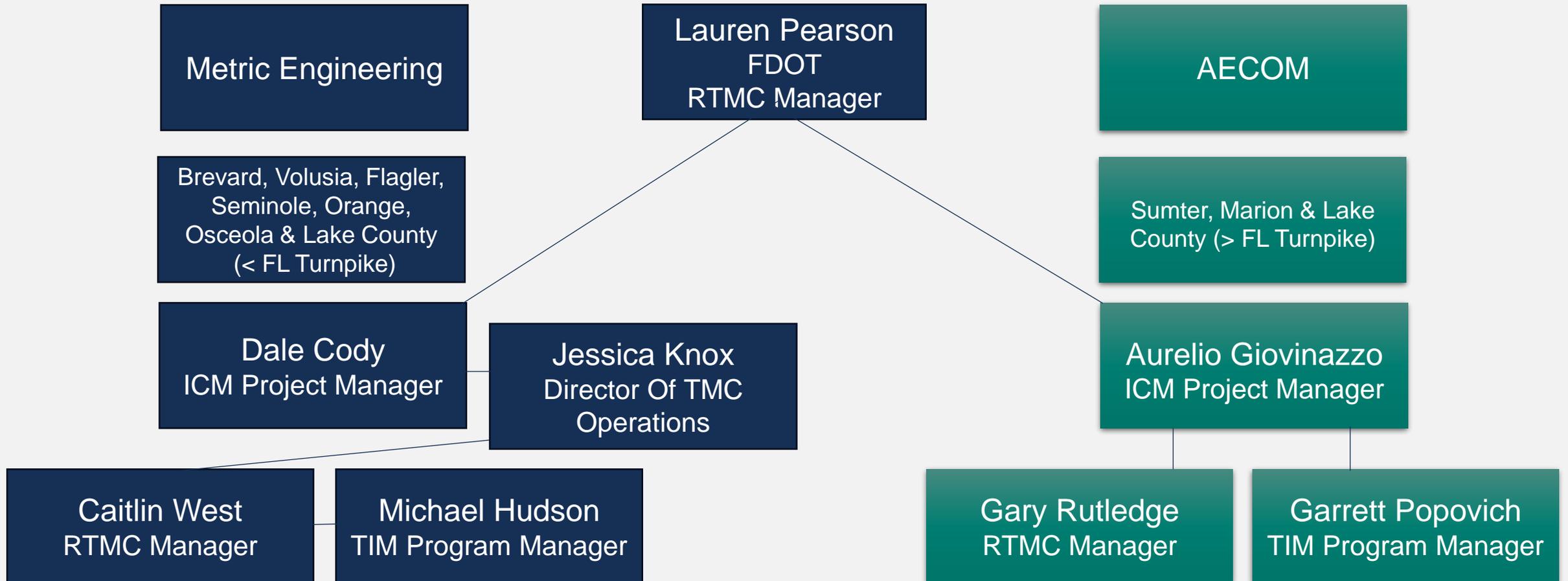
INTEGRATED CORRIDOR MANAGEMENT (ICM)

- Active Traffic Management
 - Freeway
 - Arterial
- Traveler Information
- Incident Management
- Emergency Management
- Two ICM Operations Contracts in D5





ORG STRUCTURE





EVENT MANAGEMENT (EM)

- The *Event Management* subsystem (or EM as it is often referred to) allows all users to track incidents within the SunGuide software.
- Through EM a user can:
 - Create an Event detailing incident information.
 - Publish incident information to the FL 511 system.
 - Create a predefined plan for DMS messaging.
 - Check responder status.
 - Monitor incoming system alerts.
- Events are stored within FDOT's SunGuide database for future reporting purposes. Often, reports are run to conduct post incident reviews to identify what went well and what could be improved upon.

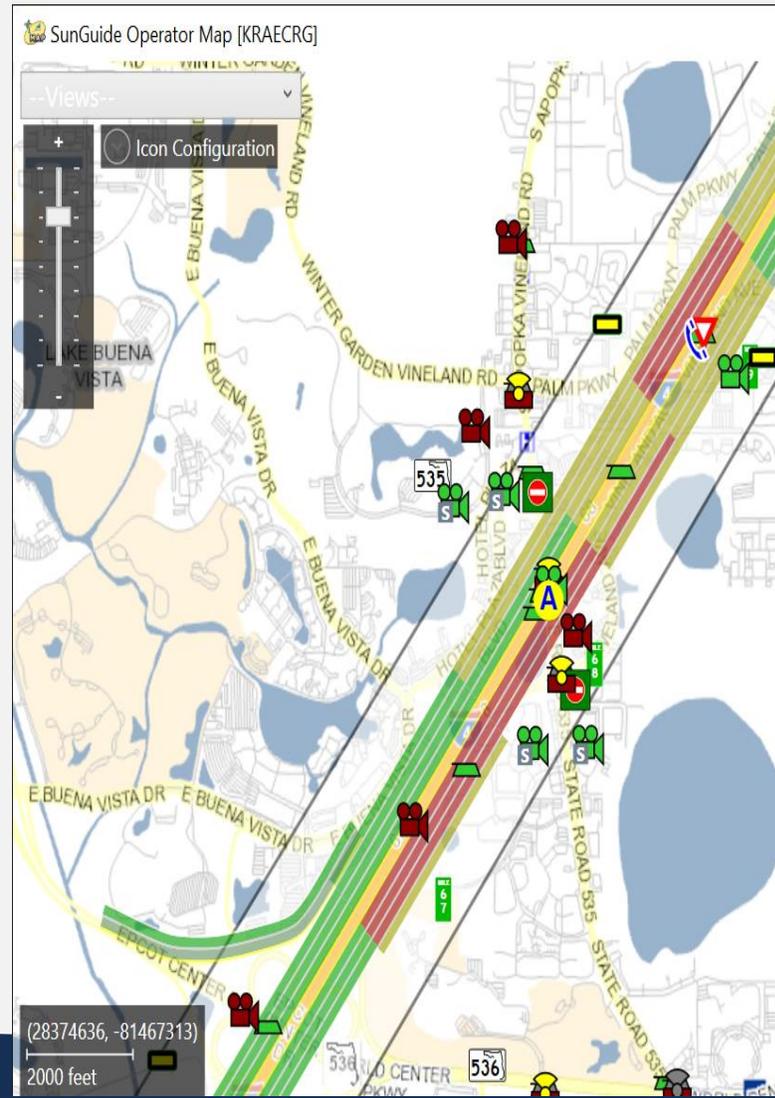
The screenshot displays the SunGuide Operator Map interface. The top portion shows a map of Florida with various event markers (green, red, yellow) indicating incidents across the state. The bottom portion features a table of active events, categorized into those with and without blockage. The table includes columns for Event ID, Location, Event Type, and Blockage. A sidebar on the right contains a list of filters and settings, including AVL/RR, Citilog, C2C TSS, External, FHP, RWIS, Safety Barrier, TSS, TVT, Waze, and Weather. The bottom status bar indicates 'No status messages reported.'

Event ID	Location	Event Type	Blockage
Active Events with Blockage			
1547946	Seminole on SR-46 Eastbound, Before I-4	Road Work - Sche...	Left Lane (of 3 Lanes)...
1547947	Seminole on SR-46 Westbound, At I-4	Road Work - Sche...	Left Lane (of 3 Lanes)...
1548178	Brevard on I-95 Southbound, Ramp To MM 220/SR-406	Crash	Exit Ramp Blocked, Le...
1548251	Seminole on SR-46 Westbound, Before Sanford Ave	Emergency Vehicl...	All Lanes Blocked, Left...
1548261	Brevard on I-95 Southbound, Ramp To MM 215/SR-50	Road Work - Sche...	Exit Ramp Blocked.
Active Events without Blockage			
1548173	Marion on I-75 Southbound, At MM 354	Disabled Vehicle	Right Shoulder Blocked.
1548190	Osceola on I-4 Eastbound, At MM 61	Congestion	No Lanes Blocked.
1548203	Orange on I-4 Eastbound, At MM 69	Congestion	No Lanes Blocked.
1548209	Sumter on I-75 Northbound, Beyond MM 327	Disabled Vehicle	No Lanes Blocked.
1548213	Orange on I-4 Eastbound, At MM 83/South St	Congestion	No Lanes Blocked.
1548219	Osceola on I-4 Eastbound, At MM 65/W Osceola Pkwy	Congestion	No Lanes Blocked.
1548237	Osceola on I-4 Westbound, At MM 63	Congestion	No Lanes Blocked.
1548238	Orange on I-4 Eastbound, Beyond MM 88/Lee Rd	Crash	Right Shoulder Blocked.
1548239	Sumter on I-75 Northbound, At MM 334	Disabled Vehicle	Right Shoulder Blocked.
1548252	Volusia on I-95 Northbound, Before MM 249/SR-44	Crash	Left Shoulder Blocked.
1548253	Osceola on I-4 Westbound, Ramp To MM 62/SR-417	Disabled Vehicle	No Lanes Blocked.
1548257	Orange on I-4 Westbound, At MM 74A/SR-482	Crash	No Lanes Blocked.
1548262	Volusia on I-4 Westbound, At MM 119	Disabled Vehicle	Right Shoulder Blocked.
1548263	Orange on I-4 Eastbound, Beyond MM 78/Conroy Rd	Disabled Vehicle	Right Shoulder Blocked.



TRANSPORTATION SENSOR SUBSYSTEM (TSS)

- Should average speed and/or occupancy fall below the configured threshold, SunGuide will produce a *TSS Alarm*. These alarms are generated in the same Alert Box as FHP Alerts, TPAS Alerts and Road Ranger Geofence Alerts.
- Each detector is configurable to produce an alarm should abnormal traffic conditions be detected.
- Currently, the standard configuration in SunGuide is a threshold between 35mph – 55mph.
- Below 35mph = Red (Congested)
- 35mph – 55mph = Yellow (Slowed Traffic)
- Above 55mph = Green (Free Flow)



Det...	Type	Details	Location
2 min...	TSS	Incident detected by TSS link I-4 WB @ MM 077.1-WB: Speed	I4 Westbound
0 min...	TSS	Incident detected by TSS link I-4 EB @ MM 076.1-EB: Speed	I4 Eastbound

DYNAMIC MESSAGE SIGNS (DMS)

- Dynamic Message Signs, or DMS, are overhead message board signs placed strategically throughout our District on interstates, expressways and arterials to allow for traffic related information to be displayed to the motoring public.
- DMS located on interstates and expressways are configured with travel times to predetermined destinations.
- When certain types of incidents occur, the DMS throughout our network can be used to provide details regarding current road conditions, examples include:
 - Incidents with lane blockage (crashes, road work, debris, detouring traffic etc.).
 - During Silver/Purple/AMBER/Missing Child/LEO Alert activation.
 - During states of emergency such as hurricane evacuation.

Device Details	Activation Action	Response Plan Message Details	Active Response Plan Message Details	Currently Active Message Details
511 ATIS	Publish	Crash in Broward county going Southbound on I-95 ramp to MM 220SR-406 with Off-ramp lanes blocked Last updated: 7/11/2024 9:32:54 AM	Crash in Broward county going Southbound on I-95 ramp to MM 220SR-406 with Off-ramp lanes blocked Last updated: 7/11/2024 9:32:51 AM	
DMS 1495 SB @ MM 222.2 (Block District)	No Action	Email Group: 05-RTMC I-95 Incident (MM 160-290) Subject: IIM Title: Crash: Follow: Infrastructure Damage Location: I-95 SB Exit 220 Ramp To MM 220SR-406 Body: Exit Ramp Blocked, Left Shoulder Blocked, Right Shoulder Open, I/P Maintenance on scene	Email Group: 05-RTMC I-95 Incident (MM 160-290) Subject: IIM Title: Crash: Follow: Infrastructure Damage Location: I-95 SB Exit 220 Ramp To MM 220SR-406 Body: Exit Ramp Blocked, Left Shoulder Blocked, Right Shoulder Open, I/P Maintenance on scene	CRASH ON EXIT 220 RAMP BLKD SR-407 8 MILES 9 MIN
DMS 1495 SB @ MM 226.6 (Block District)	No Action	(Automatically merged by MAS) Unit Canceled	(Automatically merged by MAS) Unit Canceled	CRASH ON EXIT 220 RAMP BLKD SR-407 8 MILES 10 MIN
DMS 1495 SB @ MM 231.7 (Block District)	No Action	(Automatically merged by MAS) Unit Canceled	(Automatically merged by MAS) Unit Canceled	CRASH ON EXIT 220 RAMP BLKD SR-56 17 MILES 6 MIN
DMS 1495 SB @ MM 246.0 (Block District)	No Action	(Automatically merged by MAS) Unit Canceled	(Automatically merged by MAS) Unit Canceled	CRASH ON EXIT 220 RAMP BLKD SR-46 23 MILES 20 MIN





DASHBOARDS & LIGHTS

Dashboard 1 (Left): Updated 4/2/2025, 12:05:02 PM. An IDS alert action is needed. District: I-75. Overview.

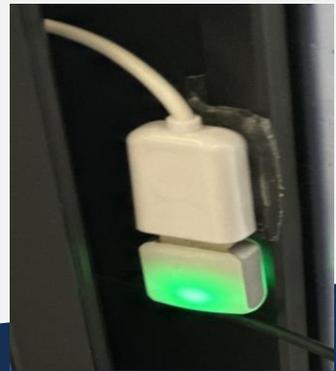
- Calls:** Total Today (157), Avg Wait Time (9s), Available (7), Active (0), On-Hold (0), Waiting (0).
- Performance Metrics:** Camera Use (3h 41m), TPAS Logs (1h 04m), TSS Alarm (44s), FHP Alarm (1m 31s), WWD Alarm (1m 08s), Event Ownership (3m 53s).
- Travel Speed:** Osceola EB (48 mph), Orange EB (47 mph), Seminole EB (73 mph), Volusia EB (76 mph), Osceola WB (66 mph), Orange WB (55 mph), Seminole WB (72 mph), Volusia WB (76 mph), Sumter NB (76 mph), Marion NB (76 mph), Sumter SB (78 mph), Marion SB (77 mph), Volusia NB (78 mph), Brevard NB (78 mph), Flagler NB (78 mph), Volusia SB (77 mph), Brevard SB (78 mph), Flagler SB (76 mph).
- Road Rangers (24 hour):** Dispatch (7m 00s), On-Duty Dispatch (3m 16s), Response (29m 58s), On-Scene (14m 51s).
- Event Response (24 hour):** Total (266), Verification (5m 49s), Response (14m 30s), Open Roads (48m 12s), Clearance (1h 56m), Departure (2h 16m).
- Active Now:** Critical Events (0), Lane Blocking (0), Abandoned Vehicles (14, 260h), Recent Events (10).
- Device Status:** Cameras (23, 94%), Detectors (85, 88%), DMS (0, 100%), DMS (TPAS) (1, 93%), MIMS Tickets (37).

Dashboard 2 (Right): Updated 4/2/2025, 12:09:03 PM. No light statuses are active. District: I-75. Operations.

- Response Plan:** 1659385 (21m 35s), 1659314 (18m 01s), 1659398 (2m 56s).
- Emergency Alerts:** Fire (Lake 807 Mark Rd, 2m 06s), FDLE Alert (FDLE Alerts, 7m 16s), Traffic Violation (Ocala W Anthony Rd & Nw 35th St, 14m 03s), Traffic Violation (Ocala Nw 35th St & West Anthony Rd, 14m 43s), Traffic Violation (Ocala Nw 35th St & West Anthony Rd, 17m 53s), Traffic Collision (Ocala 3111 S Pine Ave, 46m 14s), FDLE Alert (49m 52s).
- Alarms:** (Empty)
- Congestion:** (Empty)
- Camera Alerts:** (Empty)
- Floodgates:** (Empty)
- Out of Service:** (Empty)
- Shortcut Deployments:** (Empty)
- Available for Calls:** Dan K (32m 14s), George M (31m 08s), Wayne S (9m 59s).
- Performance Metrics:** Camera Use (3h 43m), TPAS Logs (2h 15m), TSS Alarm (33s), FHP Alarm (1m 13s), WWD Alarm (29s), Event Ownership (29s).



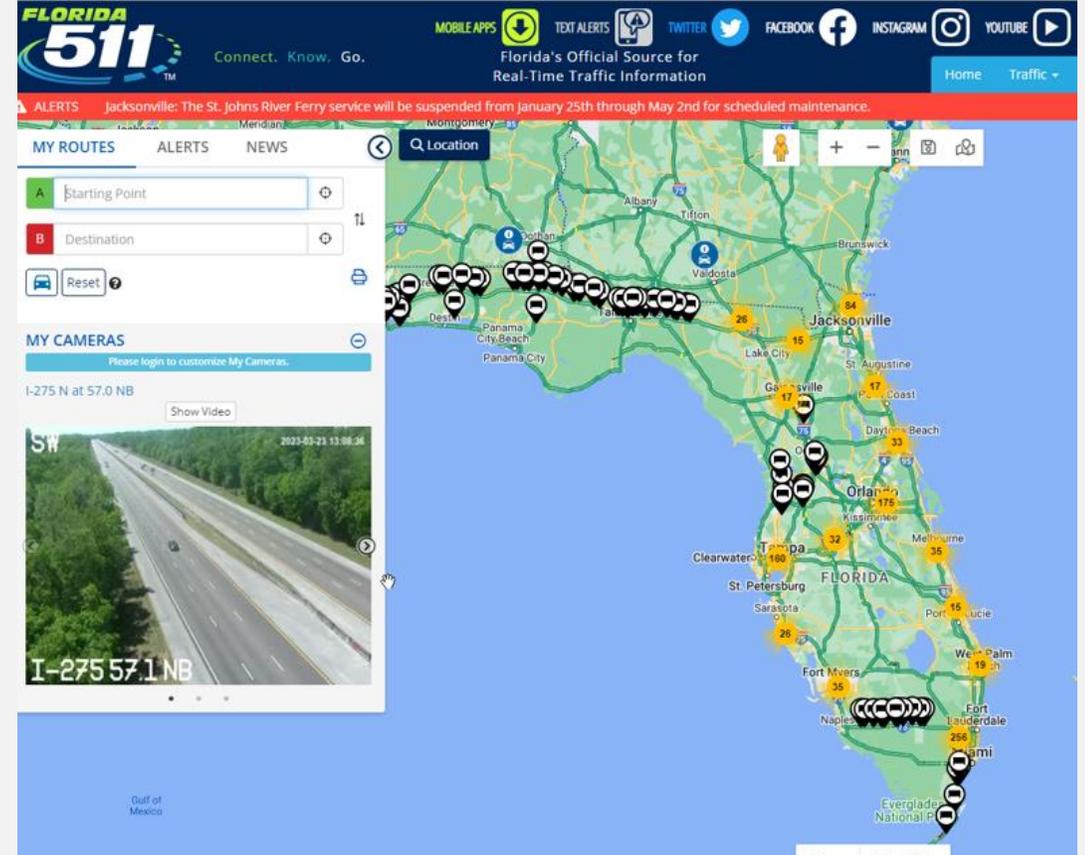
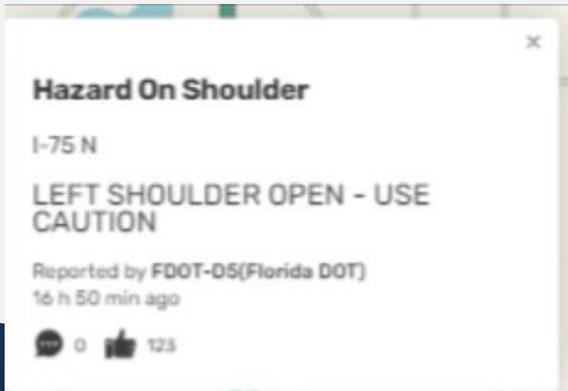
Dashboards and Status Lights are used by both Management and Operators (in addition to SunGuide notifications) to ensure new alerts are actioned as quickly as possible, and information is both accurate and updated, to help improve traveler safety and journey time reliability.





FREEWAY OPERATIONS - COMMUNICATION

- Notification/Communication
 - Florida 511
 - Third party data sharing
 - ✓ Waze
 - ✓ Google Maps
 - ✓ Apple





FL511.COM

- Real-Time Traveler Information
- Traffic Speeds
- Travel Time
- Incidents/Closures
- Personalize Routes
- Floodgates/Banners
- Statewide Cameras
- Statewide DMS
- Active Construction
- Rest Area Status
- Emergency Information
- Train/Airport/Seaport Information
- Major Events

The screenshot displays the FL511 website interface. At the top, there is a navigation bar with the FL511 logo, social media icons for mobile apps, text alerts, Facebook, Instagram, and YouTube, and a language selector set to 'ERS Map'. Below the navigation bar is a blue banner with an alert: 'Lake Worth: 6th Avenue South is closed west of I-95 from Grove Street to Congress Avenue due to construction through August 2024. Motorists should use caution in the area and seek an alternate route.' The main content area is divided into a left sidebar and a central map. The sidebar includes sections for 'MY ROUTES' (with search and start/destination fields), 'MY CAMERAS' (with a dropdown menu and instructions on how to add cameras), and 'ALERTS' and 'NEWS' tabs. The central map shows a detailed view of Florida with various traffic icons, including speed limits, closures, and incidents. A legend on the right side of the map lists various features that can be toggled on or off, such as Traffic Speeds, Closures, Detour Routes, Incidents, Road Conditions, Disabled Vehicles, Congestion, Construction Zones, Other Events, Traffic Cameras, Message Signs, Truck Parking Availability, Drawbridge Crossings, Weather Radar, Weather Alerts, Road Weather Alerts, Weather Forecasts, and Marker Clustering. The map also includes a search bar at the top and a legend at the bottom right.



ARTERIAL TIMINGS & OPERATIONS

- 3rd parties can reach out for resources and assistance
- Issues may also be identified by Resident calls
- RTMC can typically visually monitor corridor performance remotely if we have connectivity and CCTVs
- If we only have connectivity, we should at least be able to see the controller
- Coordination with RTMC Staff, Construction/Maintenance and Contractor can result in less Resident issues/calls
- Benefit - better running corridor

MANAGED LANES

- There are two types of ramps used to access I-4 Express:
- 14 slips ramps to merge in and out of the general use lanes (GUL) and express lanes.
- 14 direct connect ramps that allow direct access from express lanes to surface streets.

Slip Ramp



Direct Ramp



MANAGED LANES

- First responders will have access to emergency access gates (EAG).





TRAFFIC INCIDENT MANAGEMENT

- Incident Management/Dispatch
 - Road Rangers
 - 5,500+ RR Assists per month
 - Asset Management
 - Structures
 - RISC (Rapid Incident Scene Clearance)
 - Safe Tow
- Special Events
- Emergency Response & Support

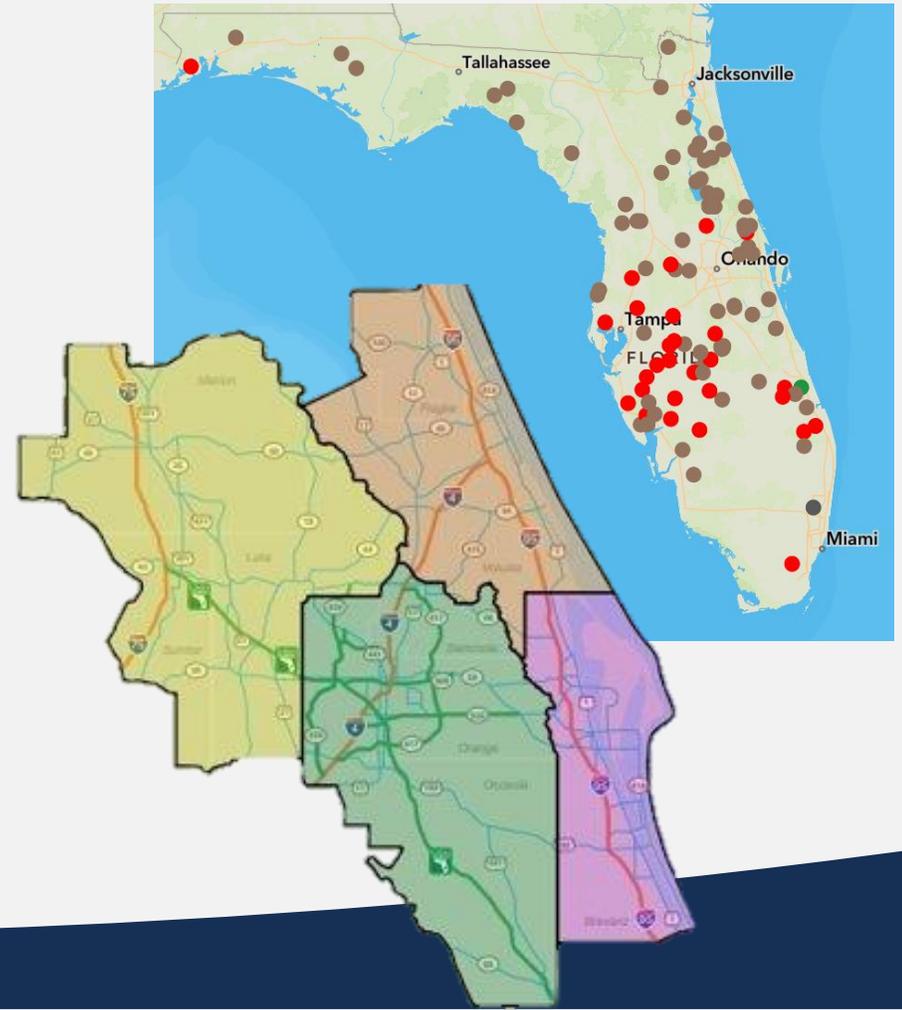


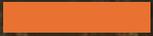


Wildfires Traffic Management

BY THE NUMBERS

- 2024
 - 1,985 wildfires and 9,622 controlled burns occurred in District Five.
- 2025
 - 51,455 Acres Burned
 - 1,096 Wildfires
 - **42 Active Wildfires**





Camp Fire

The Camp Fire was the deadliest and most destructive wildfire in California's history, and the most expensive natural disaster in the world in 2018

The background image shows the aftermath of the Lahaina Fire, with a street covered in ash and debris. A dark-colored car is partially buried in ash in the foreground, and the skeletal remains of buildings are visible in the background under a cloudy sky.

Lahaina Fire

The Lahaina Fire was the deadliest and most destructive wildfire in Hawaii's history, and the most expensive natural disaster in the world in 2023



TRANSPORTATION / EVACUATIONS

- State DOTs were **NOT** ready for a quick emergency evacuation
- State DOTs were **UNABLE or DELAYED** in assisting in evacuations
- State DOTs **FAILED** to have plans in place
- Local/County Governments put transportation response plans **LAST**





LVORI - 3

A THOUGHT THAT CAN KILL

- That's not our role...
- Is your agency ready to respond?
 - What recourses could you rapidly deploy
 - What plans do you have in place
 - Detour routes
 - How would you know a fire was in your district
 - “The fires of 1998”



A photograph showing the aftermath of a disaster. In the foreground, a dark-colored van is severely damaged, with its roof and front end crushed. The background is filled with debris, including twisted metal and wooden planks, and several trees, some of which appear to be dead or stripped of leaves. The sky is a uniform, hazy grey. Overlaid on the bottom half of the image is a text box with a dark background and yellow text.

**Don't be afraid to step out of your comfort zone.
Lives depend on it!**

UNMANNED AIRCRAFT SYSTEMS (UAS)

- Drones are used to meet many transportation needs
 - Active Crashes, e.g., areas of low/no visibility
 - Structural & Environmental Issues, e.g. washouts, bridge strikes, etc.
 - Active Construction, e.g., Sand Lake Rd Interchange
 - Emergency management, Hurricanes and Special Events



SR 33 RISC



NASA Causeway Bridge



I-4 at Sand Lake Rd
Interchange

QUESTIONS?



Travel-Time Tool

Katie King, Metric Engineering



ORLANDO
**ADVANCED
AIR MOBILITY**



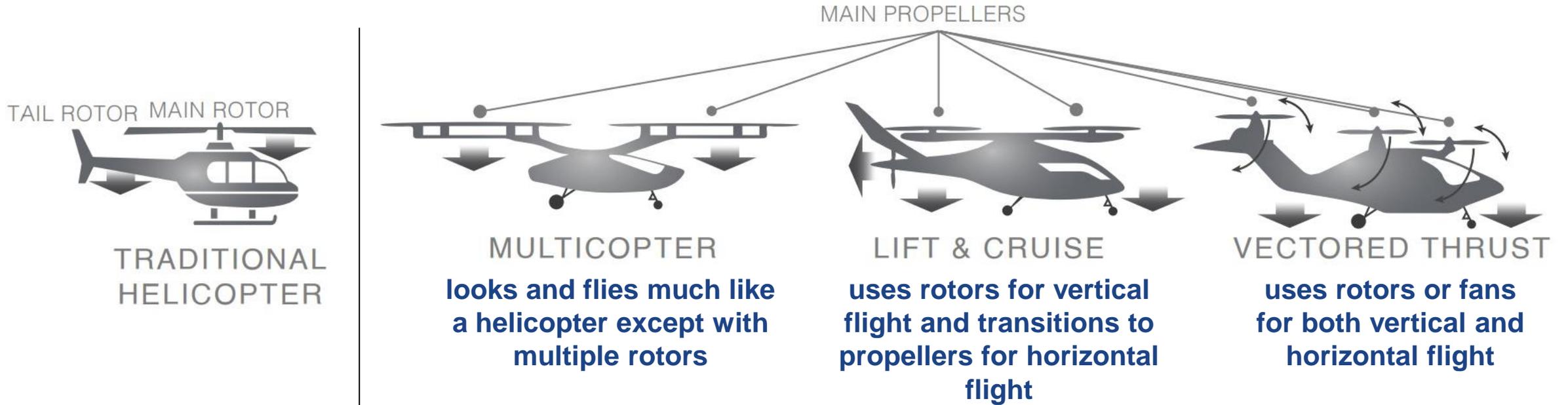
What is Advanced Air Mobility (AAM)?



- Electric Vertical Takeoff and Landing (eVTOL) vehicles
- Passengers and cargo at low altitudes
- Potential to fly +/-150 miles on a single charge
- 150-200 mph
- Mature AAM network will consist of vertiports located on rooftops or garages in urban settings, hospitals, airports, and other major multimodal transportation hubs throughout the CFL region.

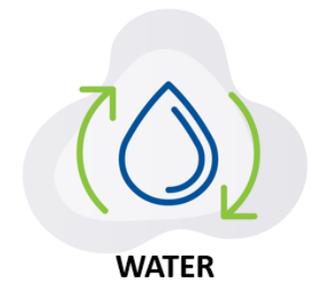
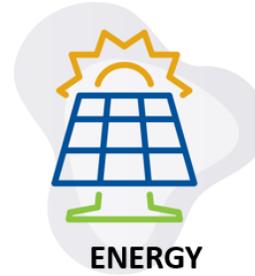


How are eVTOLs Different?



Most eVTOLs in development have a range of 200-mile range with up to 8 passengers

Typical take-off weight is up to 12,500 pounds



- Mobility Strategy: Develop a plan to engage private sector eVTOL takeoff and landing companies to connect activity centers within the Central Florida region (city taxi model) and connect Orlando to other cities within the southeast.

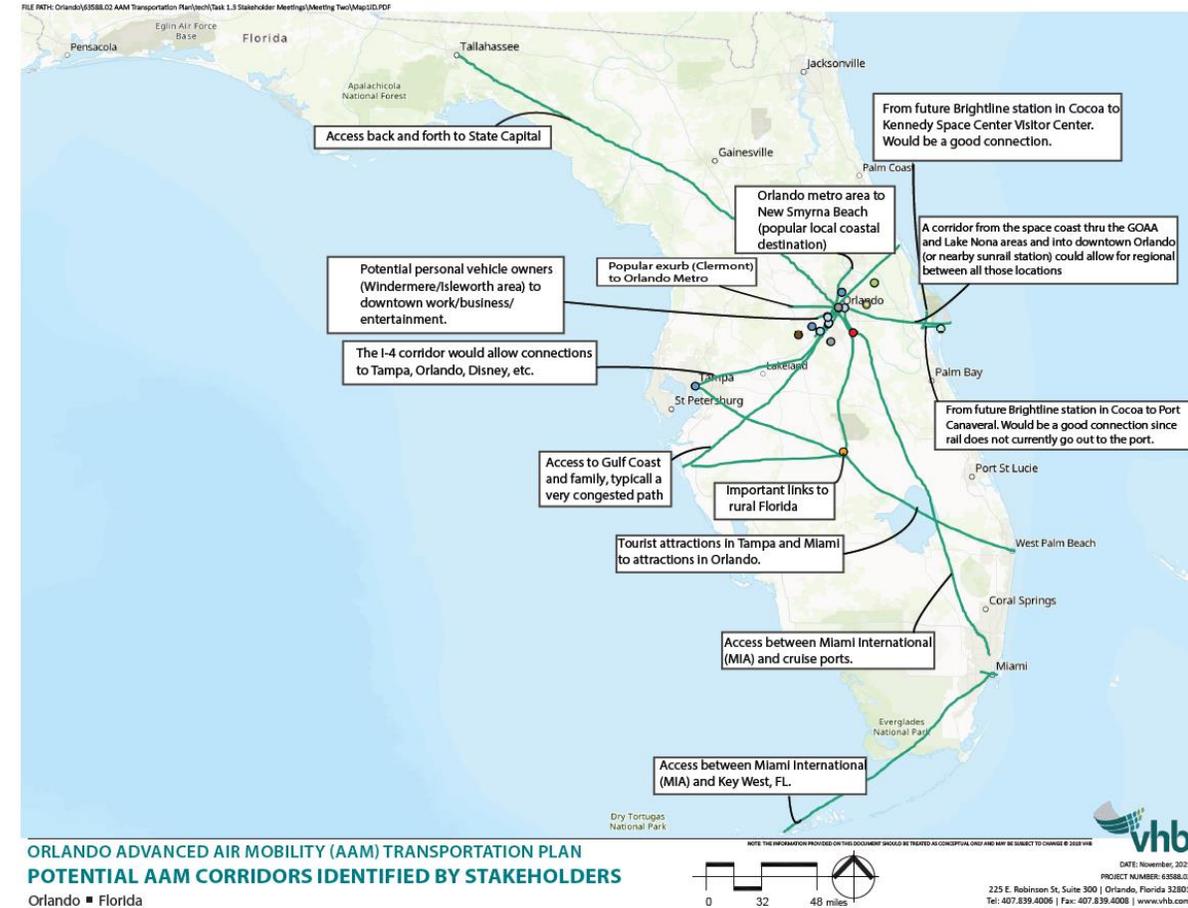
Why is it important for the City?

- Cities and counties must be at the forefront of the conversation on AAM and be active participants in policy formulation
- No one knows the City better than ourselves, and no one is better positioned to understand the potential impacts of AAM
- Enhanced mobility and transportation alternatives
- Continued innovation with our regional partners
- Equity considerations
- AAM/UAM is regional in nature and must be considered with regional partners



ORLANDO ADVANCED AIR MOBILITY

- Phase One
 - Technical Memorandums on Regional Transportation and Environmental Challenges and Opportunities
 - Economic Impact Study of Geico Garage
 - NASA Community Planning Annex
 - Stakeholder outreach and regional visioning
- Phase Two
 - Zoning and regulations review
 - Agency coordination
- Phase Three
 - Travel Demand Model
 - Vertiport target locations
 - Additional stakeholder outreach



Economic

- There will be positive economic benefits (employment, taxes, GDP), but it is too early for the City to invest in infrastructure without a partner
- The potential costs (**\$30M capital cost, \$0.6-\$1M/year parking revenue loss**,) outweigh the direct fiscal impacts back to the City (**\$4.3M tax revenue over a 20 year period**, as estimated by IMPLAN).
- To move forward, the City should negotiate an agreement with an AAM operator, detailing
 - Cost-sharing responsibilities
 - Revenue sharing (if applicable)
 - Performance measures
 - Ground lease payments back to the City.
- The Agreement will help the City understand the return on investment (ROI) before making capital investments.





ORLANDO ADVANCED AIR MOBILITY

- Phase One
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FDOT Recommended Best Practices

1. Assign a lead staff member for AAM
2. Review FDOT State of AAM
3. Review zoning ordinances
4. Map out aeronautical use facilities
5. Identify incompatible land uses
6. Establish a benchmark for existing ambient noise levels
7. Establish waste, hazardous materials, and pollution prevention requirements
8. Establish AAM Policies that put the community first
9. Update Zoning ordinances



Advanced Air Mobility Roadmap



June, 2022



City of Orlando Vertiport Approval Process

1. Chapter 58, Part 4P Vertiports City of Orlando Land Development Code
2. Zoning Districts
3. Conditional Use Permit



Image from: Air Force Fun Helicopter Tours North

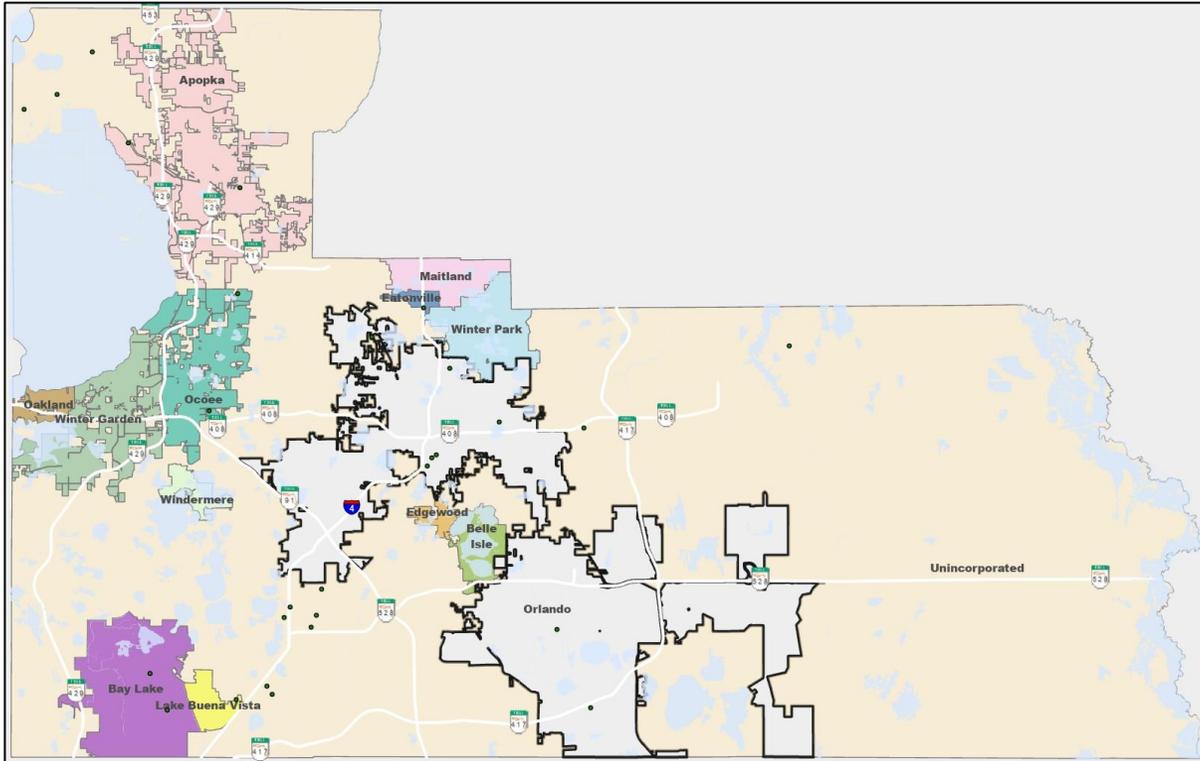


1. Chapter 58, Part 4P Vertiport Standards

- Sec 58.850 – 58.853 of the Land Development Code regulates Vertiport permitting in the City of Orlando (Ordinance 9-16-1991)
- The classifications of vertiports defined in Chapter 8 of this City Code as Class I, II and III and the subclassifications thereof as Subclass A, B and C shall be deemed to be the **same respective classifications and subclassifications as are contained in the Federal Aviation Administration (FAA) booklet entitled "Helicopter Design Guide," AC 150/53901A, dated November 5, 1969.** All recommendations set forth therein relating to the location, design, construction, visual markings, and fire protection for such vertiports shall be the requirements of this Chapter; provided, however, that a Variance therefrom may be granted in accordance with Chapter 65, Part 2J if the Federal Aviation Administration advises the City that such variance will not render such vertiports unsafe.

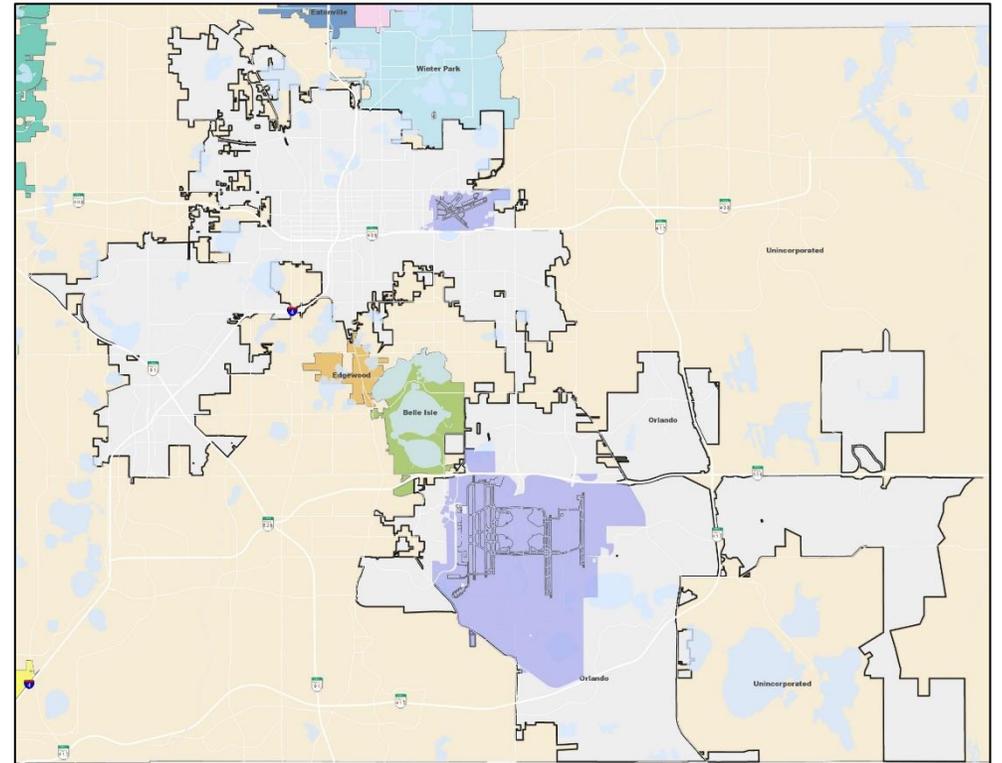


County Wide Airport Map

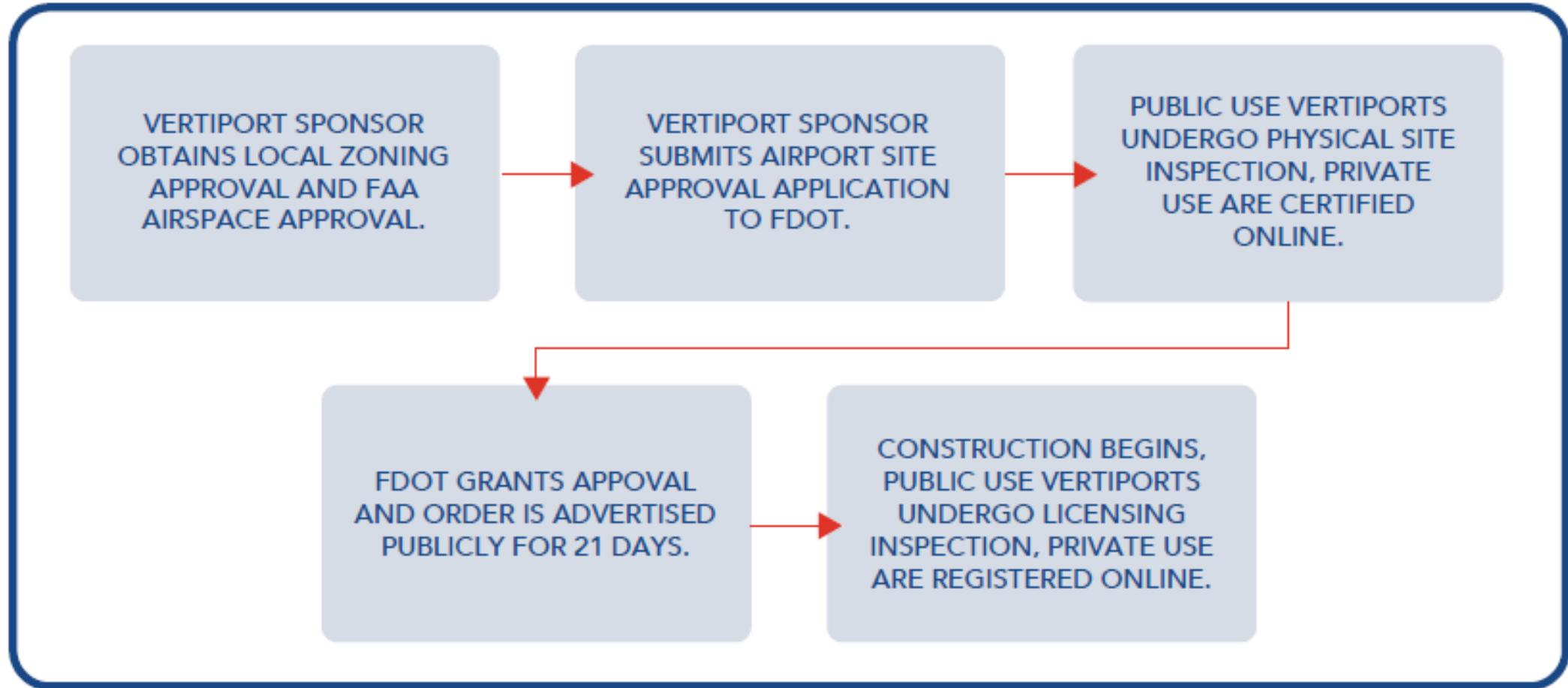


Retrieved from Airport Data and Information Portal, November 2024

GOAA Facilities



Summarized FDOT Airport Site Approval Process



Stakeholder Engagement



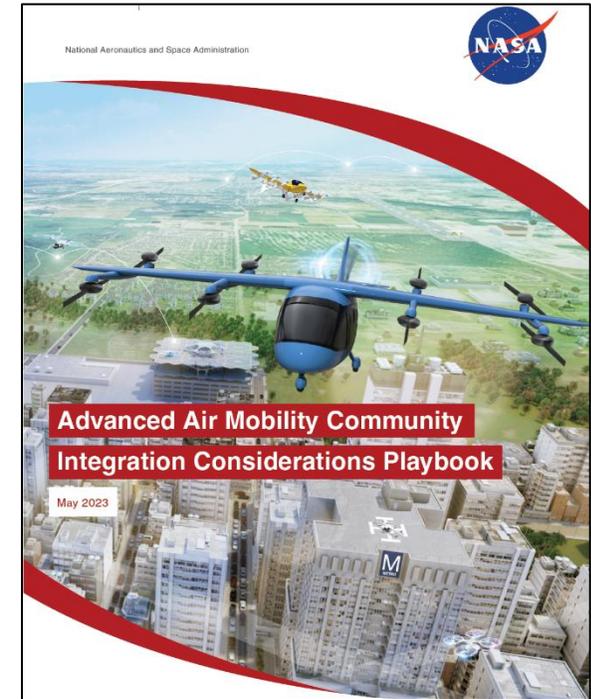
Key Questions

- How do we project possible demand and preferred vertiport location
- Who owns and operates vertiports
- How do we ensure safe operations and integrations into existing airspace and ground transportation networks
- What happens when we move out of the regulatory phase, what community partners do we need to engage
- How do we regulate, measure and enforce external impacts (noise, visual pollution...)
- How does approval of a Vertiport affect property rights
- What type of information/data sharing will be required



Resources

- NASA – Community Integration Considerations Playbook
- FDOT – Advanced Air Mobility Land Use Compatibility and Site Approval Guidebook
- American Planning Association – Planning for AAM Guidebook
- NAS Transportation Research Board (TRB) - New Users of Shared Airspace
- Conferences – APA National Conference, NASAO National Conference, International Civil Aviation Organization, Berkley Future of Aviation, Smart Cities Connect



Thank You!



orlando.gov/futureready

Drone Deliveries in Central Florida

Update on Draft Environmental Assessment for Wing Aviation



TSM&O Consortium Meeting - April 2025



What Was Applied for...

- On December 19th the FAA provided notice that Wing Aviation is seeking approval to conduct drone deliveries in Central Florida through the dissemination of a Draft Environmental Assessment (EA).
- Wing is planning to operate drone deliveries from 4 Wal-Mart stores in Metro Orlando.
- Deliveries of up to 5 lbs. will take place within 6 miles of each store and all deliveries will be automated, without a human operator, and drones should not need to land at any point except at the drone nest.
- Feedback to the EA was due to the FAA on January 20th.



https://www.faa.gov/uas/advanced_operations/nepa_and_drones



Package Delivery Process – Section 2.2.2 of EA

- 1. Customer places an order and selects drone delivery.
- 2. Staff at the store prepare item for delivery and bring it to the loading area at the nest.
- 3. Drone is sent a predetermined route and gets clearance from Wing's system to start operations.
- 4. Drone lifts vertically to 23 ft. above ground level (AGL) and waits until package is loaded to end of tether.
- 5. Tether and package are reeled into the drone and the vehicle begins trip to delivery location. While in route drone will climb to cruising altitude of 150-300 ft. (AGL) and will travel around 59 miles per hour (MPH).



Package Delivery Process Continued...



- 6. Drone will follow the predetermined route to delivery location.
- 7. As drone approaches delivery location it will descend ultimately hovering at 23 ft. (AGL) at delivery location.
- 8. Drone will lower the package to the customers property (yard, driveway etc.) via the built in tether, once package is on the ground the drone will release the package and reel in the tether.
- 9. Drone repeats the trip and altitude adjustments to return to the nest for the next delivery.



Drone Details

Aircraft Model	Hummingbird 7000W-B	Hummingbird 8000W-A
Fleet Make Up	70-80%	20-30%
Size	4.3 ft. (L) 4.9 ft. (W) 1 ft. (H)	6.2 ft. (L) 6 ft. (W) 1 ft. (H)
Weight	11 lbs. (no payload) + 2.5 lbs. (max payload) < 15 lbs. Total	20 lbs. (no payload) + 5 lbs. (max payload) < 25 lbs. Total
Rotor Design	Multi-rotor design with 16 propellers	Multi-rotor design with 12 propellers



Proposed Locations...

- Initial Locations: 4+ in Metro Orlando delivery area is up to 6 miles from drone nest (droneport).
 - 8990 Turkey Lake Rd Orlando, FL 32819
 - 11250 E Colonial Dr Orlando, FL 32817
 - 1450 Johns Lake Rd, Clermont, FL 34711
 - 2855 N Old Lake Wilson Rd, Kissimmee, FL 34747
- Future Expansion: Seeking FAA Approval for up to 150 nest across CFL

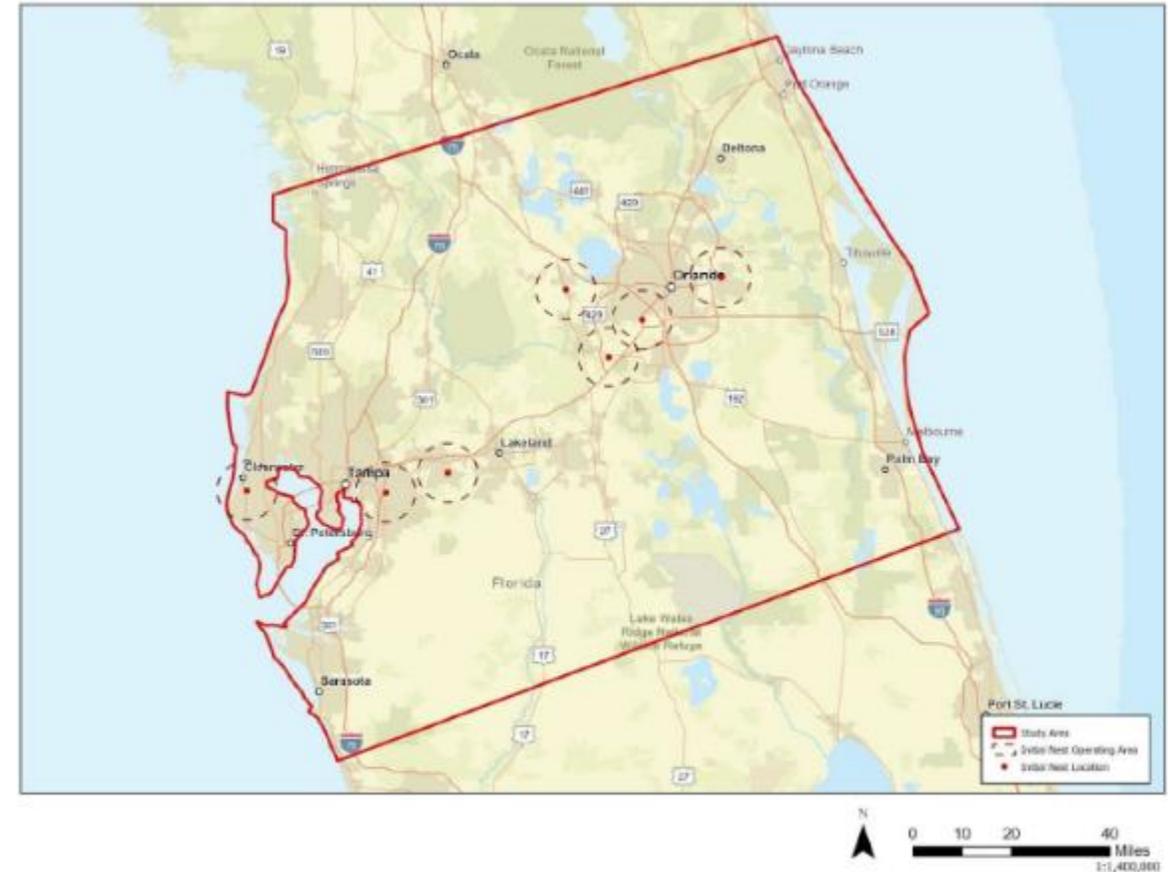
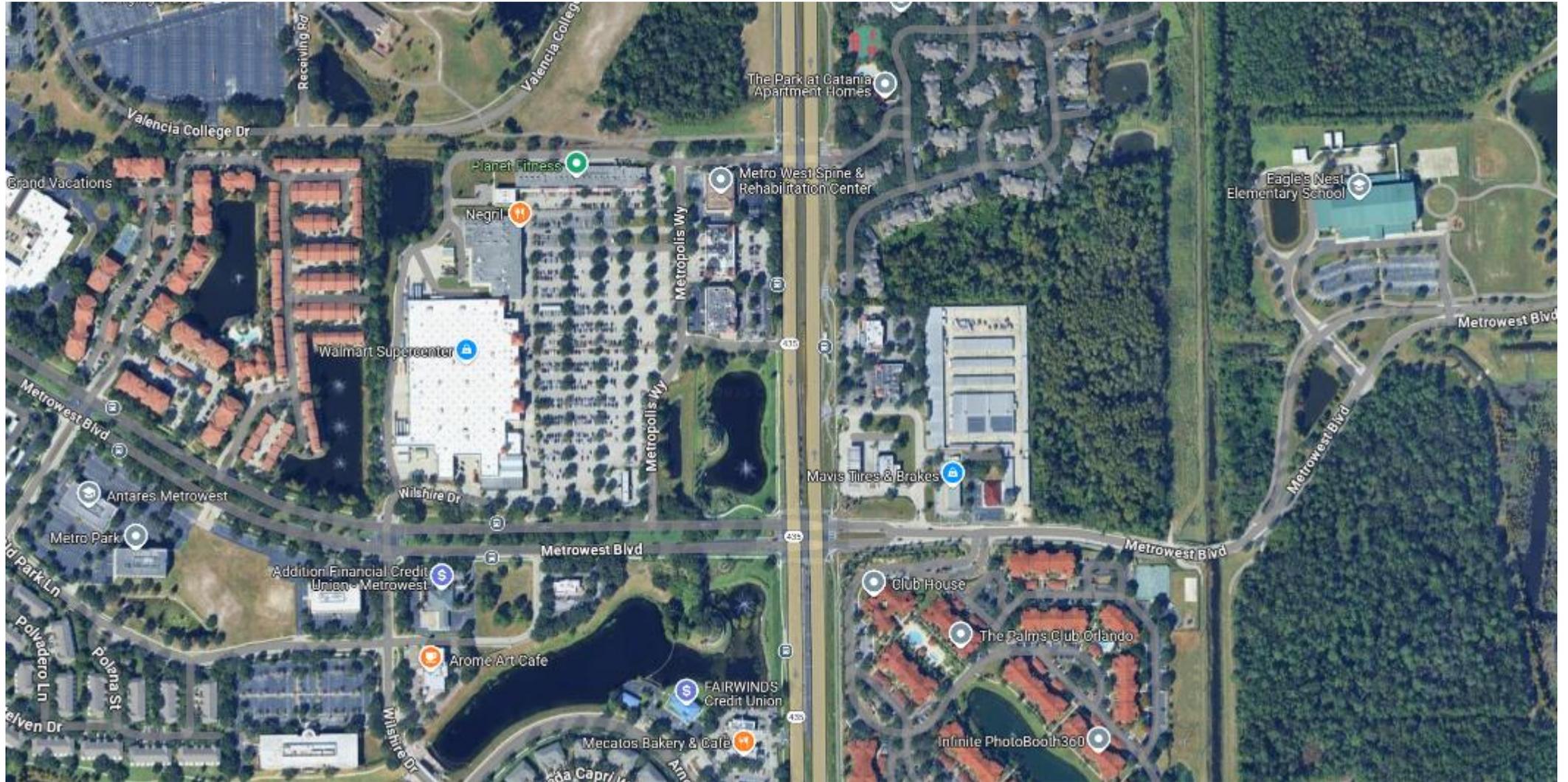


Figure 2.2-2. Wing's Proposed Central Florida Metro and Surrounding Area Initial Site Locations



Proposed Locations...

- 2500 S Kirkman Rd., Orlando



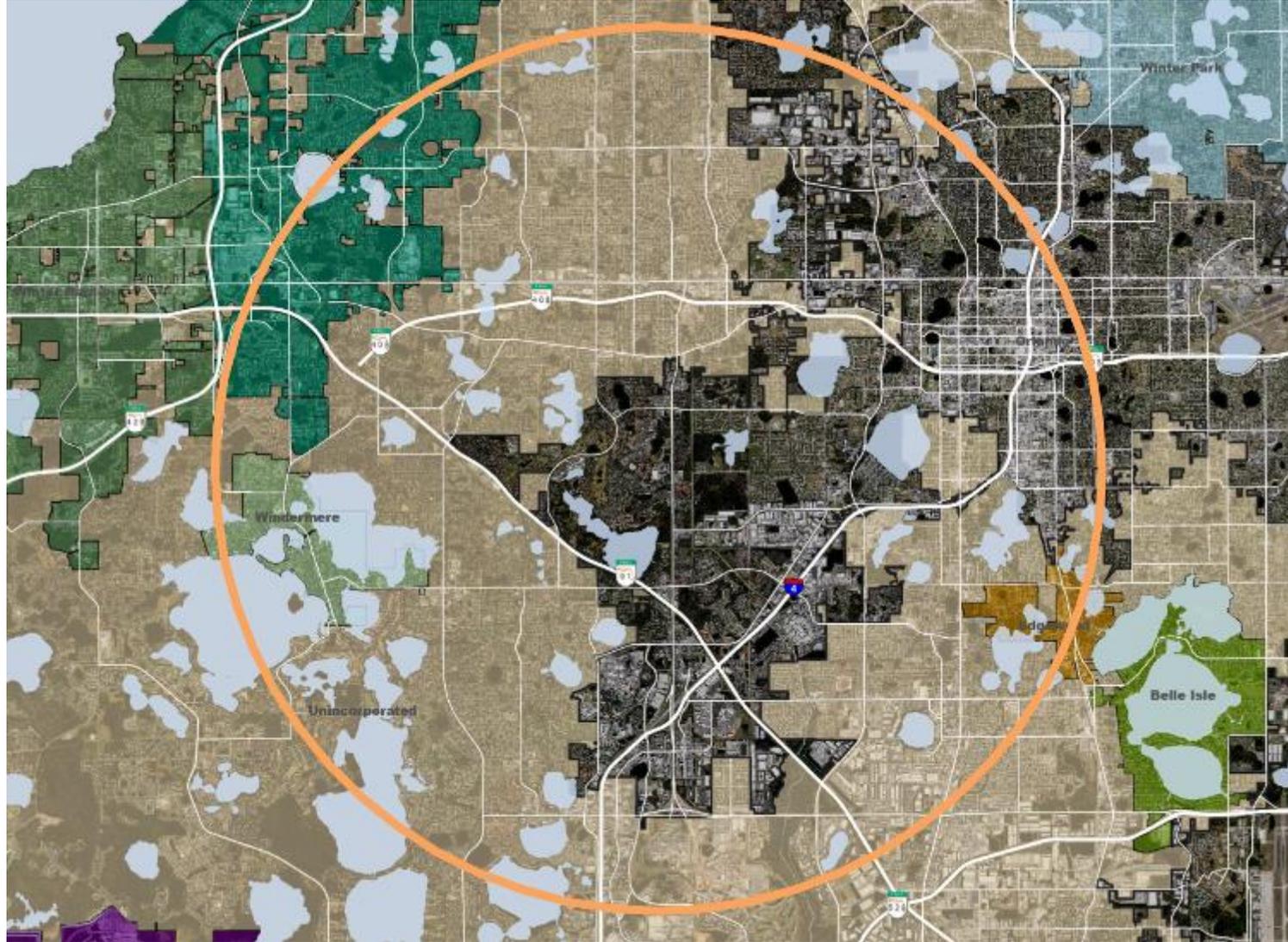
Proposed Locations...

- 2500 S Kirkman Rd., Orlando



Proposed Locations...

- 2500 S Kirkman Rd., Orlando



Drone Nest Details...

- Typically located in parking lot, close to other delivery service area.
- Fenced area with a shipping container for drone storage and generator for initial power delivery.
- City of Orlando expects to permit through a site plan determination or similar if accessory use.
- Will need building permit for fence and electrical permit for power connection.



8555 Preston Rd Frisco TX



Regulatory Framework - Federal

- The federal government, through the FAA, has sole approval powers for the aircraft (drone) certification as well as the certification of the company as an “air carrier” under Part 135 Certification. ([FAA Package Delivery by Drone Summary](#))
- Wing Aviation has existing FAA, Part 135 approval to operate as an air carrier.
- Under current FAA rules the expansion of drone deliveries into Central Florida is a major federal action which requires the approval of an environmental assessment (EA).



Regulatory Framework - State

- Drone operations within Florida are governed by Section 330.41 Unmanned Aircraft Systems Act of State Statute.
- Section 3 – Regulation – seats all authority to regulate the operation of unmanned aircraft systems to the State. Part 3(c) states that local jurisdictions “*may not withhold issuance of a business tax receipt, development permit, or other use approval to a drone delivery service or enact or enforce an ordinance or resolution that prohibits a drone delivery service’s operation based on the location of its drone port*”
- Generally, in relation to drones local jurisdictions can only enact or enforce local ordinances relating to nuisances, voyeurism, harassment, reckless endangerment, or property damage.



Next Steps

- Wing Aviation is waiting for FAA response to EA with a goal to start operations in Central Florida in the 2nd half of 2025.

Remaining Questions:

- Public Outreach Before Operations
- Emergency Procedures
- Company Point of Contact
 - Lines of Communication
 - Public City to Company
- FAA Remote ID Requirements
- Package Drop Off Locations



Thank You!

Jacques Coulon, AICP
Jacques.coulon@orlando.gov



orlando.gov/futureready



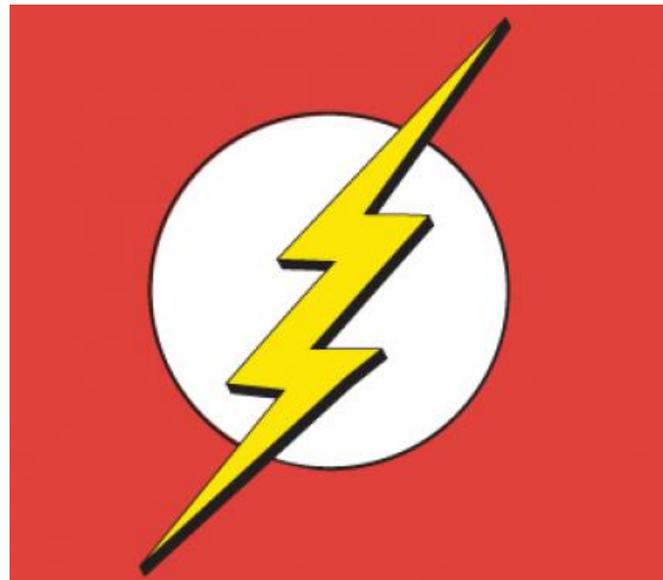
FLASH Award

Kevin Marquez, FDOT District Five

FLASH AWARD



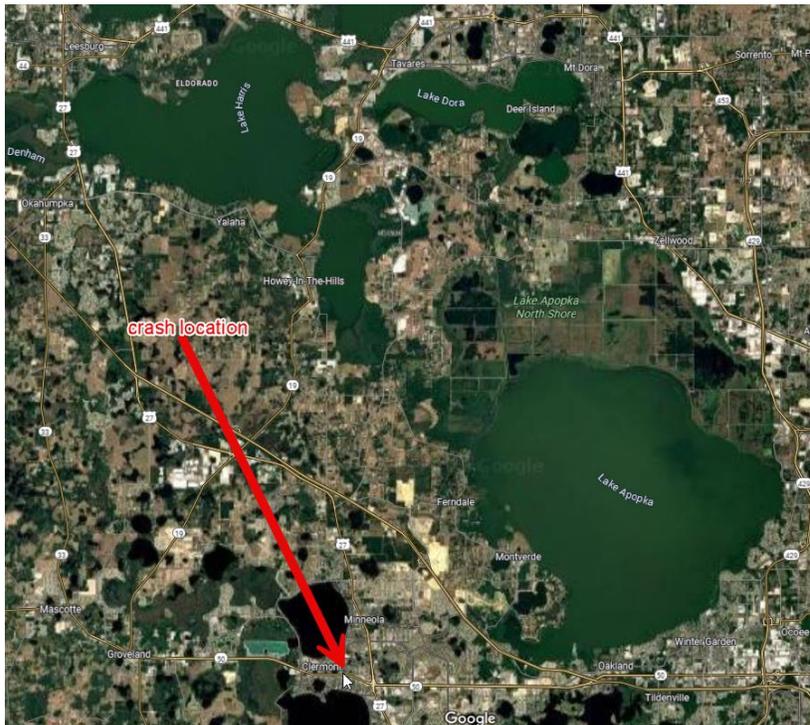
- D5 TSM&O's recognition program for outstanding maintaining agency response for traffic signal emergencies
- Focuses on showcasing specific efforts throughout D5
- Discuss processes, best practices, lessons learned, etc.



State Road 50 at East Avenue Lake County



- 2/25/2025 at 2:52 AM Lake Country Traffic Operations signal on-call personnel received call about crash at subject location
- 3:41 AM staff arrives on scene to find a semi truck had crashed into the traffic signal strain pole, electrical service panel, and ped signal.



State Road 50 at East Avenue Lake County



State Road 50 at East Avenue Lake County



• Emergency Response Details

- Shortly after arrival, County personnel begins full MOT effort to close intersection, rerouting traffic through internal residential streets
- 4:10 AM County personnel activate their traffic signal contractor (TCD) for emergency repairs
- 6:00 AM additional County personnel arrives to begin clean up and continue to assist with MOT
- 7:00 AM Contractor arrives on scene but unable to begin work since truck removal and pole removal needs to be coordinated.
- 9:00 AM tow truck begins assessing removal plan and contractor begins to work on minor repairs and securing materials (wood pole, signals, span, etc.)
- 9:30 AM intersection turned over to traffic signal contractor to begin temporary replacement work

State Road 50 at East Avenue Lake County



- Emergency Response Details

- 5:00 PM intersection is back online after the installation of a wood pole, new span, and generator hookup for power source. **Approximately 14 hours from crash to intersection reopening.**
- Refueling of intersection generator was handled by County personnel on 8-hour refueling schedule.
- Refueling efforts continued until 02/27/2025 (two days), when the new power service was installed.
- Long term repair efforts are underway to install a permanent concrete strain pole at the intersection.

State Road 50 at East Avenue Lake County





State Road 50 at East Avenue Lake County



- Key Successes

- Experienced County personnel leading an experienced contractor
- Utilizing an “on-call” contract that doesn’t require a purchase order or written NTP
- Experienced County personnel capable of managing large MOT needs
- Having a reliable contractor that is available 24/7 - TCD
- County worked with the contractor and provided some material as needed

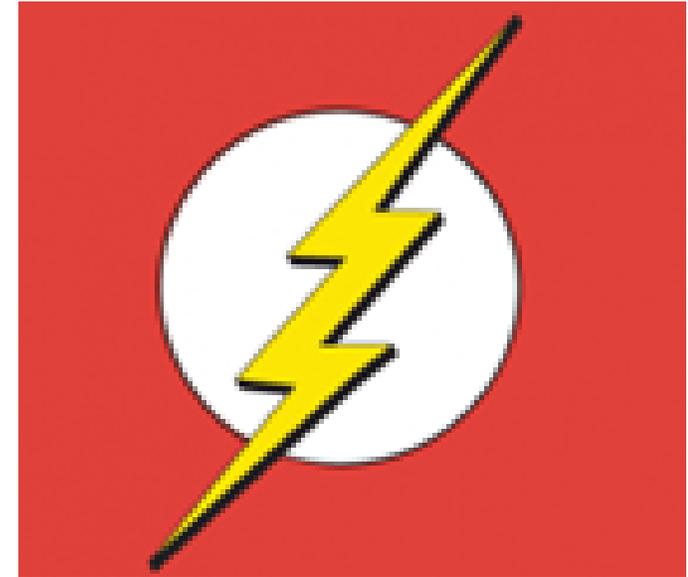
- Lessons Learned

- Having a refueling plan for emergencies is critical
- Coordination with FDOT for equipment is always an option

State Road 50 at East Avenue Lake County

Key Staff Involved – Lake County:

- William Narvaez
- Geoffrey Gurney
- John Patterson
- Lake County Traffic Operations Signal Department
- Clermont Police Department





THANK YOU!

Next Consortium – June 5, 2025



TSM&O Consortium Meeting

MEETING AGENDA

Teleconference or
FDOT District 5 RTMC (4975 Wilson Rd, Sanford, FL 32771)

April 3, 2024

10:00 AM-12:00 PM

- 1) FDOT DISTRICT FIVE TRAFFIC OPERATIONS – UPDATE
 - Tushar Patel, FDOT District Five Traffic Operations
- 2) EMERGENCY VEHICLE PREEMPTION – UPDATE
 - Aurelio Giovinazzo, AECOM
- 3) INTEGRATED CORRIDOR MANAGEMENT (ICM) OPERATIONS
 - ICM Operations Teams
- 4) ORLANDO ADVANCED AIR MOBILITY – UPDATE
 - Jacques Coulon, City of Orlando
- 5) DRONE DELIVERIES IN CENTRAL FLORIDA
 - Jacques Coulon, City of Orlando
- 6) TRAVEL-TIME TOOL
 - Katie King, Metric Engineering
- 7) FLASH AWARD FOR EMERGENCY REPAIRS – LAKE COUNTY
 - Kevin Marquez, FDOT District Five Traffic Operations
- 8) CURRENT INITIATIVES
 - David Williams, VHB