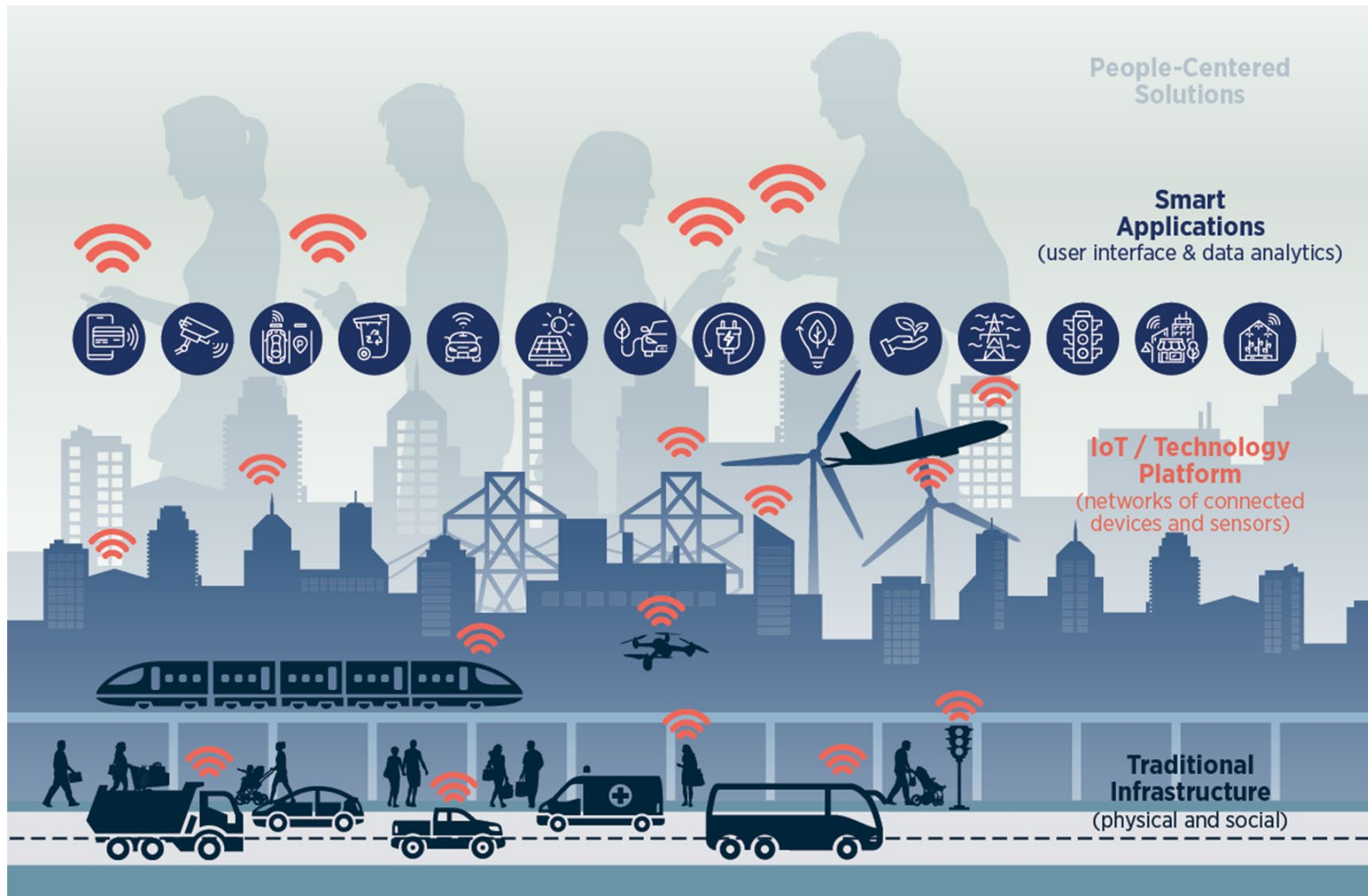




Connecting Florida and Lessons Learned

Traffic Engineering & Intelligent Transportation Systems (ITS)

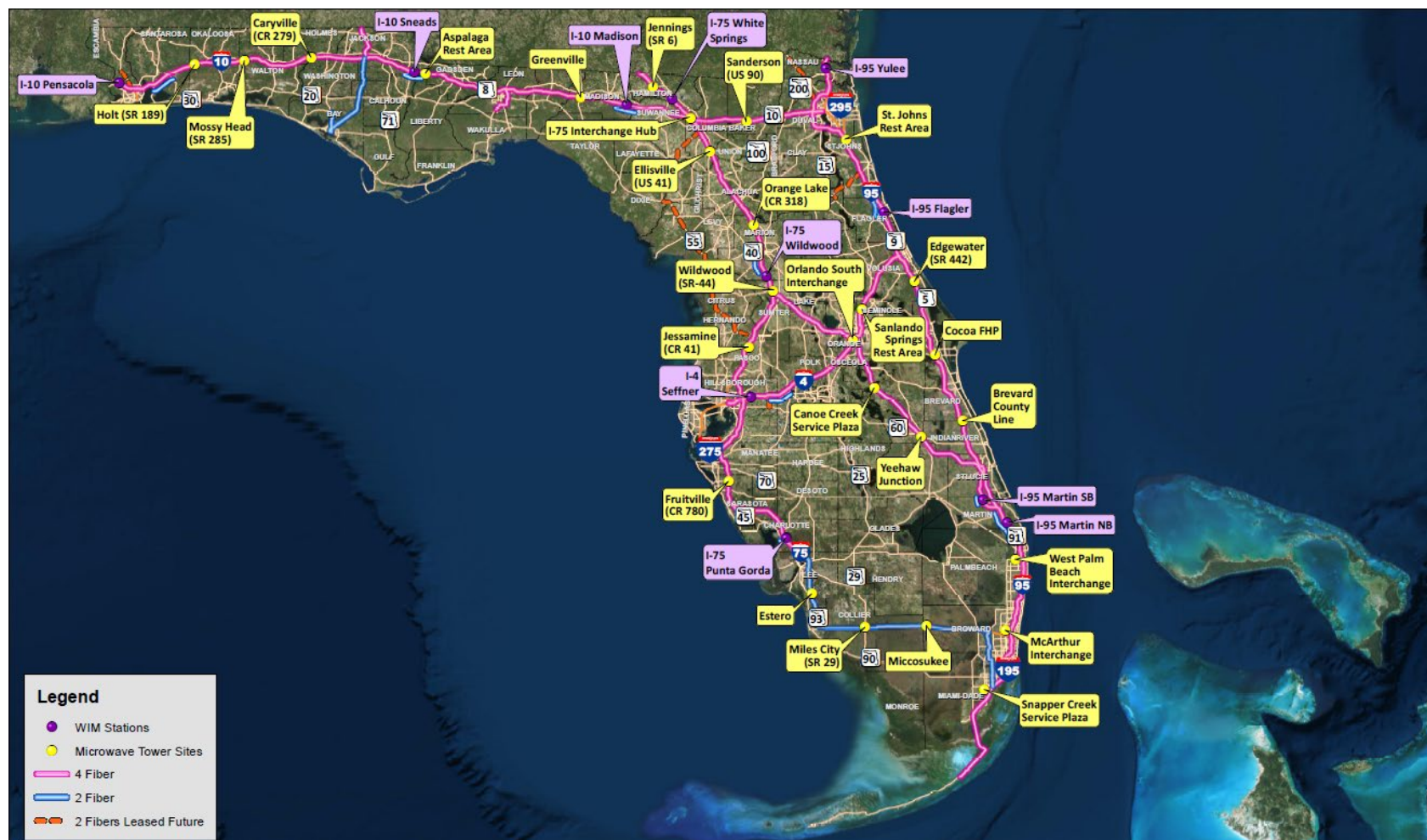
November 21, 2025



State-Wide Fiber Optic Networks

The state-wide Weigh-In-Motion and TMC/ITS fiber optic network was developed with redundant “self healing rings”.

- 2,200+ miles of fiber
- 2,900+Cameras etc
- Completed Fiber Projects in Texas, Georgia and Florida

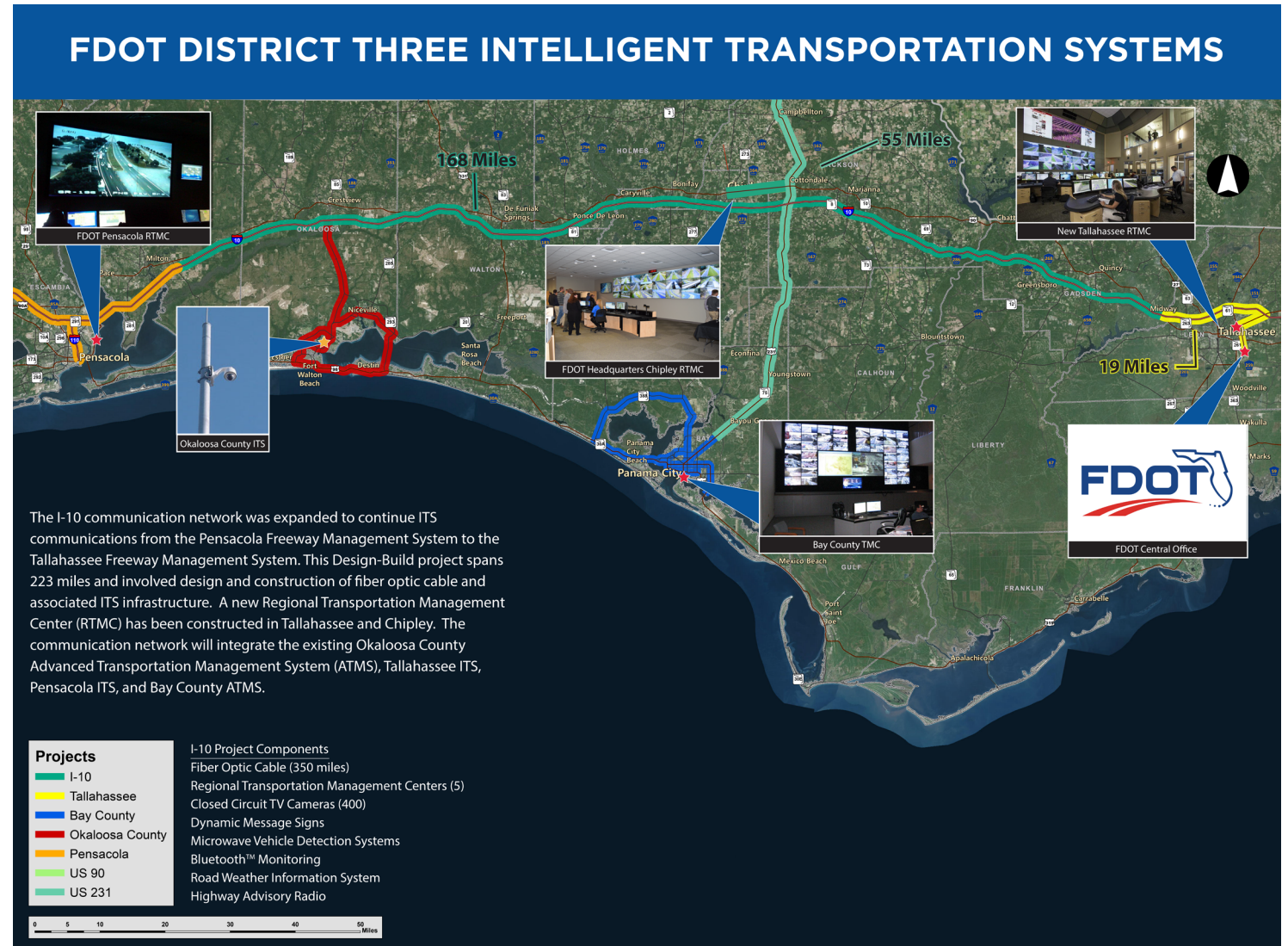


FDOT ITS FREEWAY MANAGEMENT SYSTEM | FDOT DISTRICT THREE

Florida ITS Deployment

Largest Rural ITS Deployment in the United States. (at the time)

- 223 miles of Interstate in North Florida
- 200+ CCTV Cameras
- 140+ MVDS
- 50+ Bluetooth Travel Time Systems
- 20 DMS, 3 RWIS, 20 HAR
- 4 Transportation Management Centers (TMC) +2 future
- Wrong Way Detection Systems
- LL- Too Large

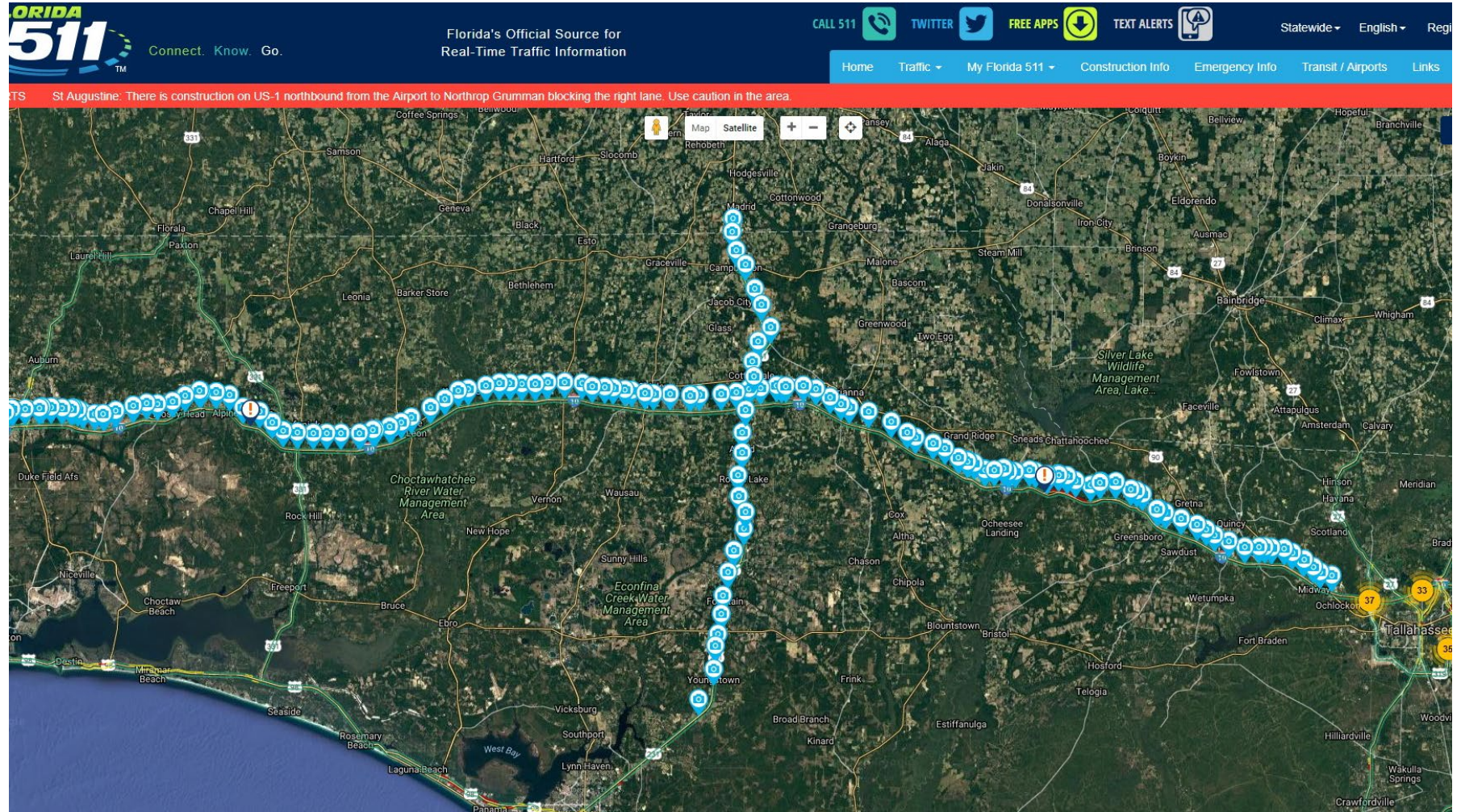


ITS DEVICES | CCTV CAMERA/TRUCK PARKING

Florida 511 CCTV Camera Locations

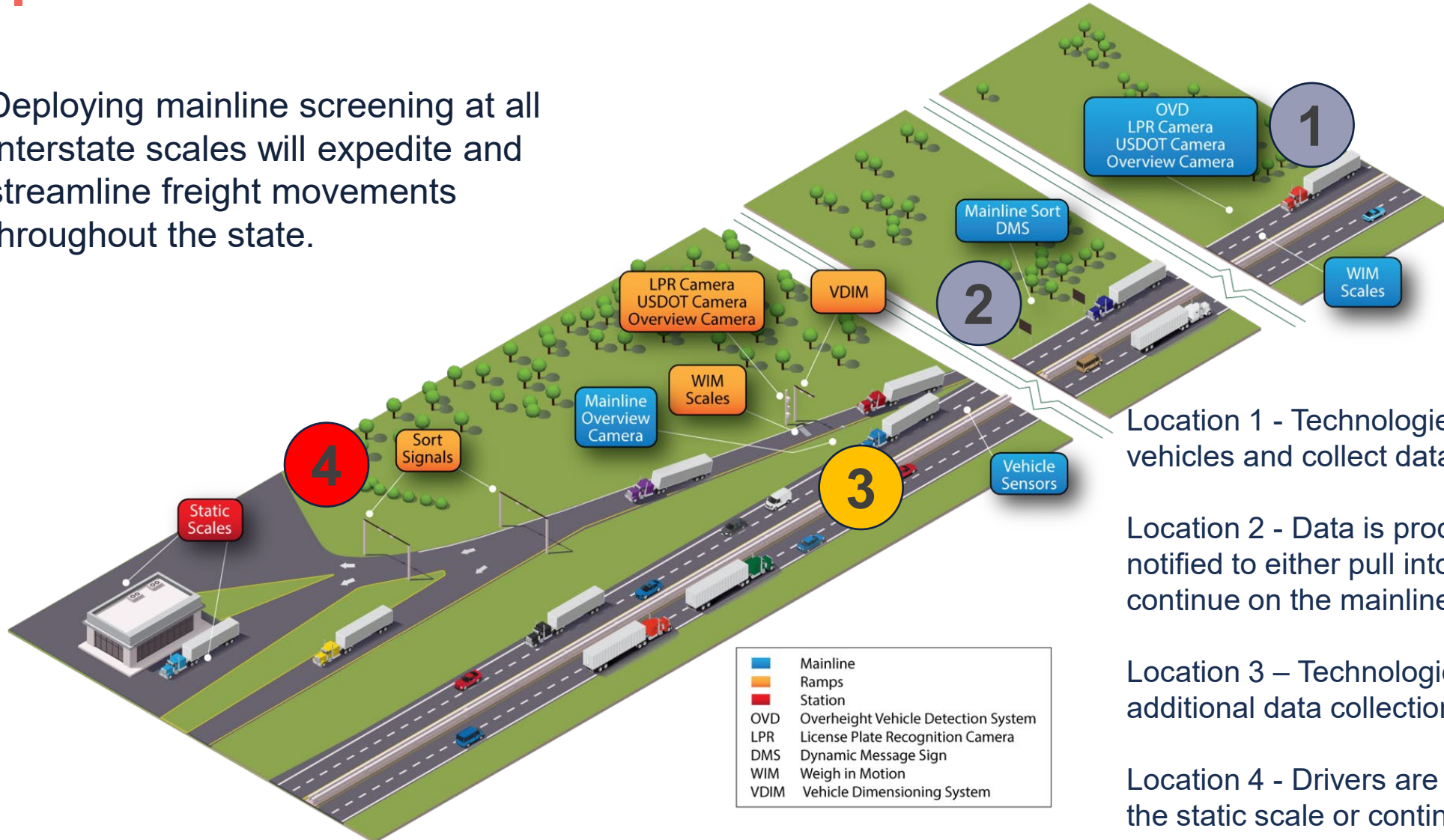
In Florida, CCTV Cameras using the Florida 511 website (<https://fl511.com>)

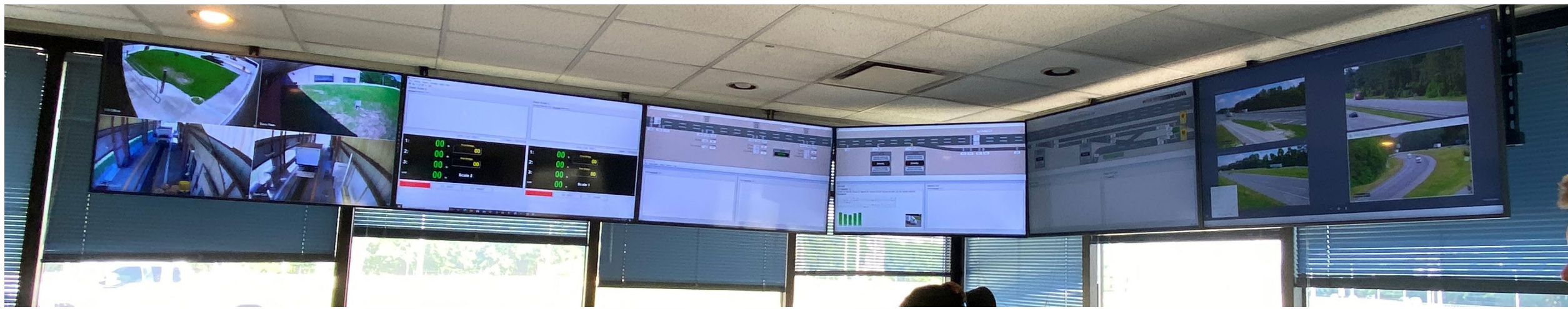
L/L- Project too Large



MAINLINE WEIGH-IN-MOTION WEIGH STATION

Deploying mainline screening at all Interstate scales will expedite and streamline freight movements throughout the state.





Trucks are bypassed or sent to Weigh Scale

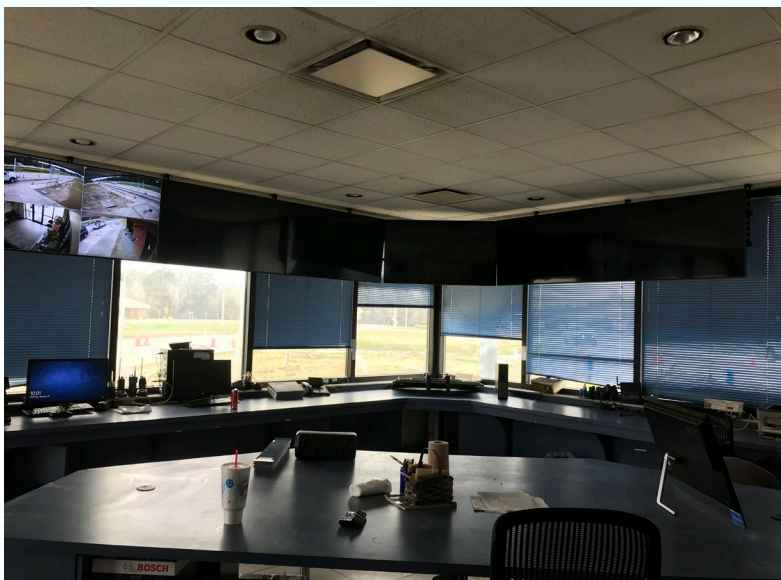
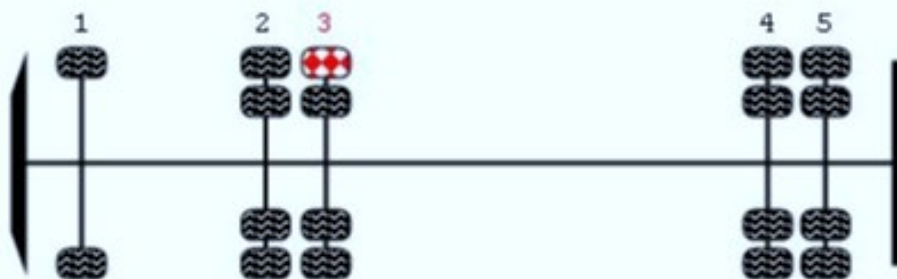
Trucks are directed to a weigh scale.

- Static Weight
- Photos
- Laser images of entire truck
- DOT number photo
- Tires Anomalies

40 LOCATIONS NOW AND MORE COMING



20 10:28:39 Class:9 Speed:41 Gross:57100
UnderInflatedTire



WRONG WAY DETECTION SYSTEMS

- 156 ramps on 125 miles
- L/L- too large for one contractor



TRUCK PARKING AVAILABILITY SYSTEM (TPAS)

Informs truck drivers of available spaces at upcoming state-owned facilities such as rest areas and weigh stations.

- Truck drivers often resort to unsafe and illegal methods of parking on roadway shoulders or vacant lots
- TPAS allows truck drivers to make proactive decisions for resting locations

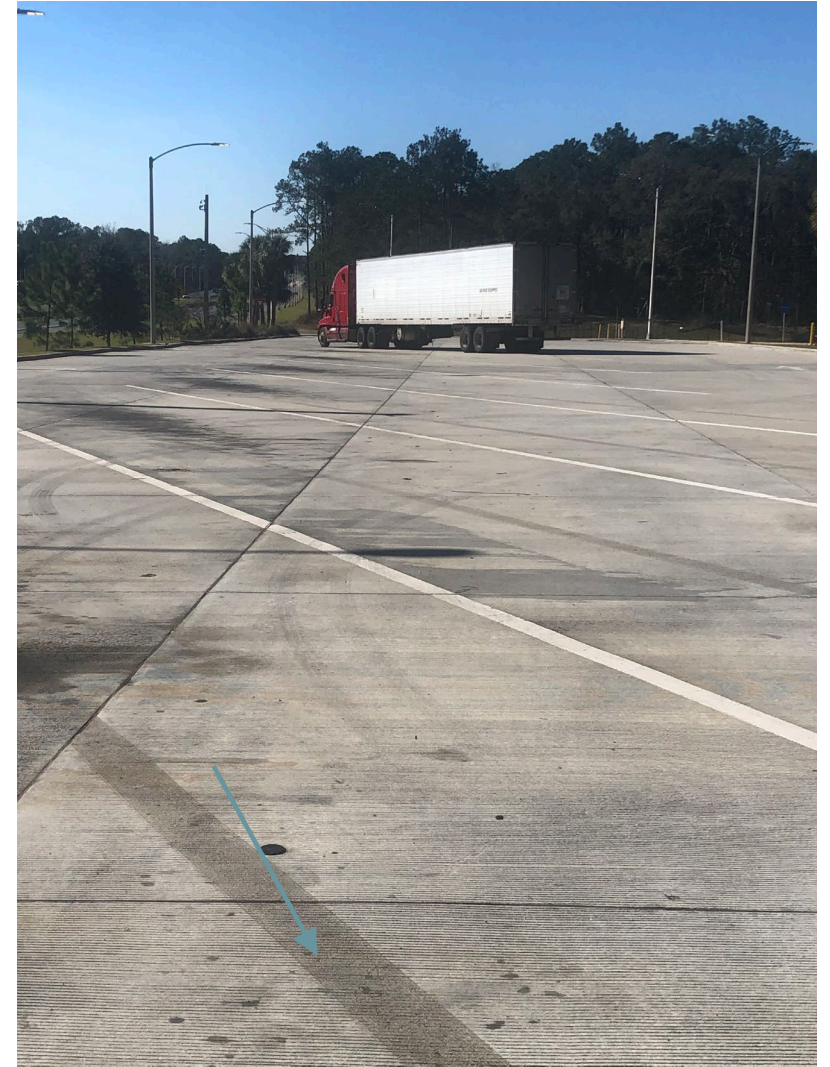


ITS DEVICES | TPAS

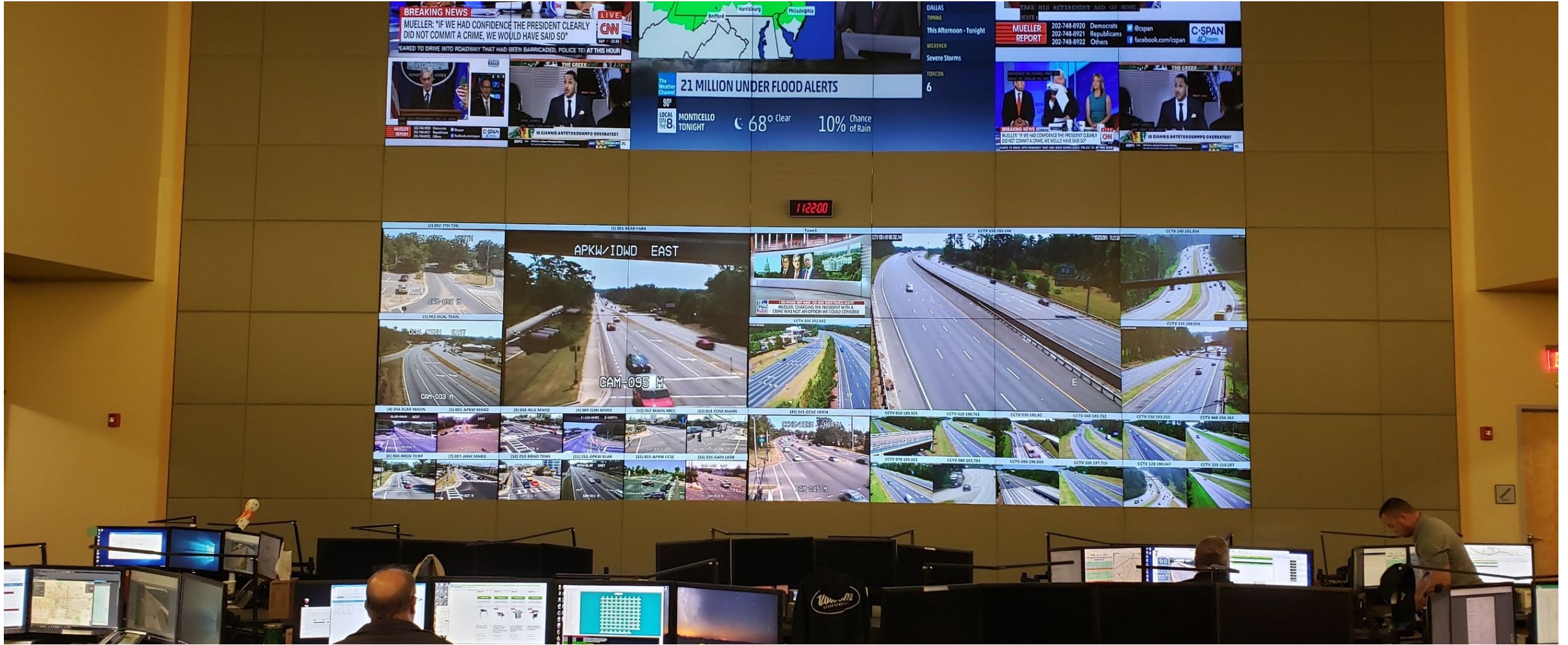
Vehicle Detection

TPAS utilizes vehicle detection, such as puck sensors, to detect vehicles in parking spaces. Other detection methods include ingress/egress sensors.

- Communicates the number of available spaces to TPAS operating facilities
- Information displayed on Dynamic Message Sign upstream of the truck parking location
- LL- pucks problem
- New Video Analytics



TRANSPORTATION MANAGEMENT CENTERS (TMC) DESIGN



TRANSPORTATION MANAGEMENT CENTER (TMC) BAY COUNTY, FL



TRANSPORTATION MANAGEMENT CENTER (TMC) TALLAHASSEE, FL



Halff Has Completed 14 Traffic Management Center Designs

- ATMSPM Software Performance Measures

TRANSPORTATION MANAGEMENT CENTER (TMC) TALLAHASSEE, FL



**Multiple Agencies sharing
resources and technologies**

■ | QUESTIONS?

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