

# Truck Parking Availability System Florida's Unique Approach



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# Florida International University (FIU) Research (2011)

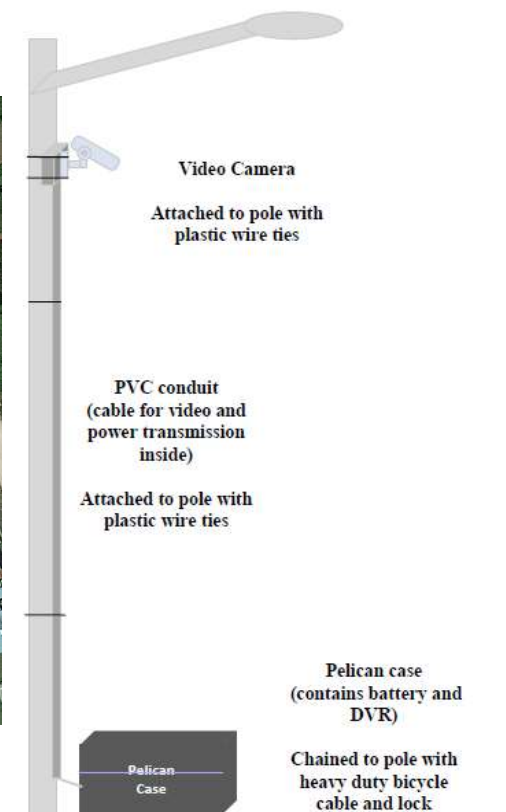
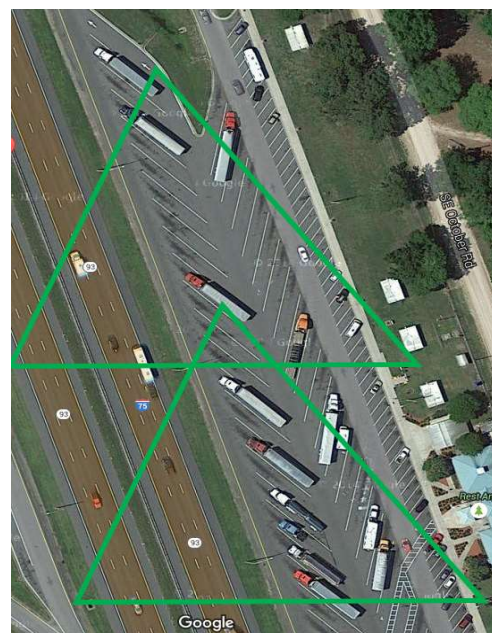
Identified current supply and demand of public parking:

- Needs to “balance” parking use.
- Technology deployment for information availability.



# University of Florida (UF) Research (2016)

- Evaluation of in-ground sensors to examine their capabilities
  - Tested four different vendors
- Ground-truth data through video logs
- Three products listed on FDOT's Innovative Products List (IPL)



**Video Camera Mounting Details**

# University of Florida (UF) Research (2016)

## Performance Accuracy Requirements

- Turnover Accuracy – 90%
- Occupancy Accuracy – 95%
- Detection system test conducted over two 15-hour (6:00 p.m. to 9:00 a.m.) sessions

## Developmental Specification 660

### **VEHICLE DETECTION SYSTEM.**

**(REV 12-20-16)**

ARTICLE 660-2 is expanded by the following:

**660-2.5 Truck Parking Detection System:** Furnish and install a truck parking detection system in accordance with the details shown in the Plans. The detection system must be capable

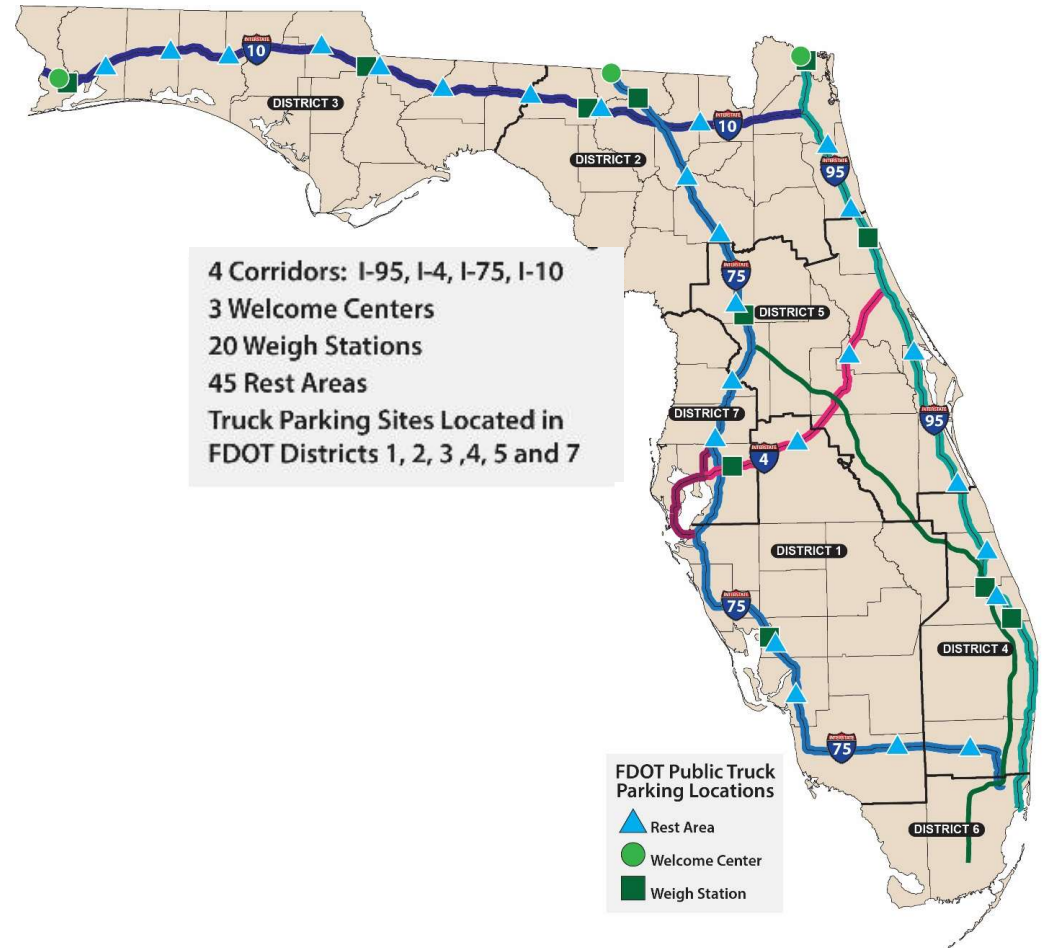
# Project Delivery



Three-stage approach to statewide comprehensive truck parking solution

# TPAS Locations

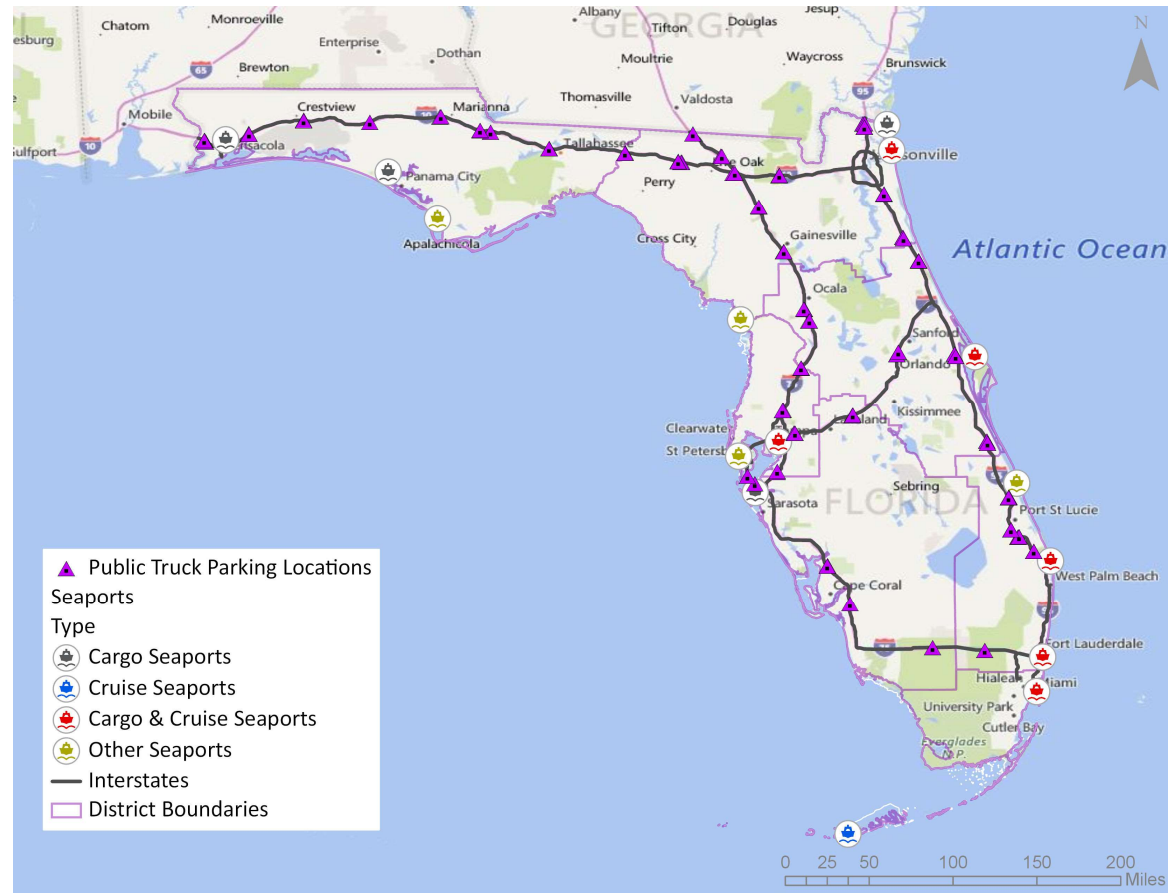
- 45 rest areas
- 20 weigh stations
- Three (3) welcome centers



Number of Truck Parking Spaces Monitored	2,352
Wireless Detection System (WDS)	1,875
Microwave Vehicle Detection System (MVDS)	477

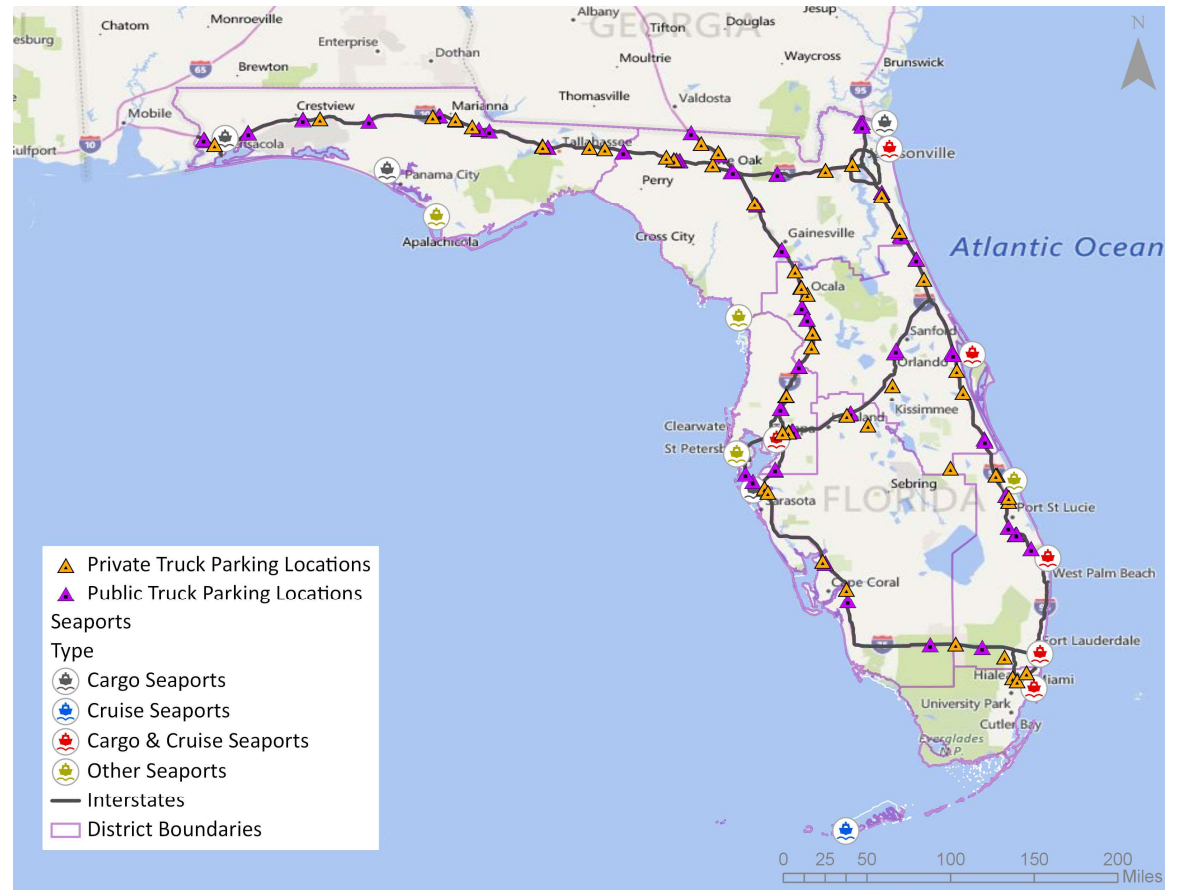
# Public Parking – Stage 1

- Complete 2019
- All public facilities
- Based on existing locations



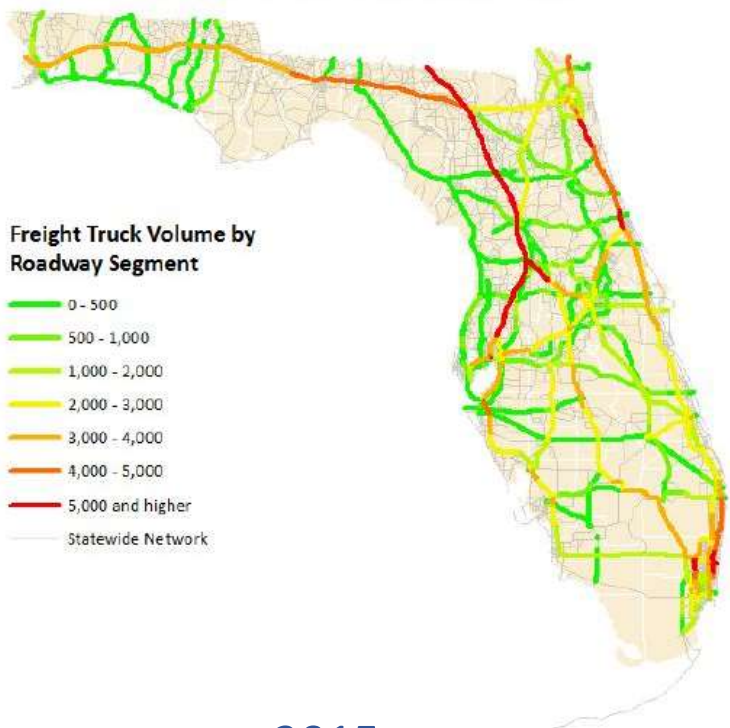
# Private Parking Availability – Stage 3

- Incorporation of private facilities
- Based on existing locations
- Can include new, strategic locations for staging near ports/freight generators

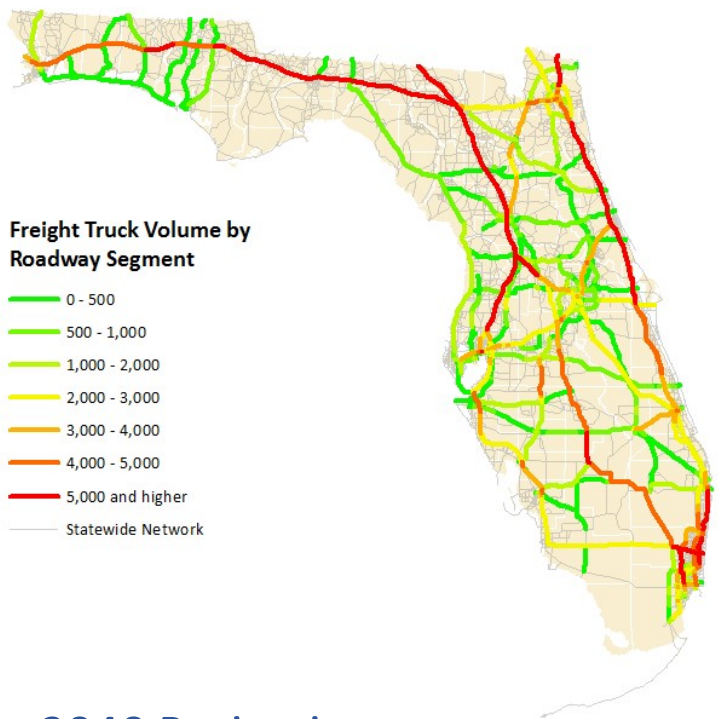




# Freight Growth



2015



2040 Projections

# Regional Freight Network – Communications

- Statewide fiber optic communication network
- Inter-connects weigh stations
- Establishes the backbone for freight network

