

2006 ITS World Congress - London
SS34

Florida's Virtual Weigh Site: Why & How



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Outline

- Introduction
- Challenge
- Solution
- Evaluation
- Conclusion



Introduction

- E-Squared Engineering provides ITS services for APTS, EPS, Intermodal Freight, CVO, Parking
- Florida DOT ITS CVO General Consultant
 - Share some of our (FDOT) experiences and thoughts



The Punta Gorda Challenge

‘Vociferous’ complaints to the State of Florida (up to and including Jeb Bush) concerning truck traffic cutting through their communities and becoming a safety hazard to the citizens.

The Punta Gorda Challenge

Mr. Brian Mosce addressed a problem with trucks driving through residential neighborhoods in order to bypass the weigh station on I75. He stated he had contacted the County, State and Federal governments with no results, thus he was asking City Council for any assistance they could provide. He noted he had videotaped the trucks in his neighborhood and had since received threats from truck drivers. He drew members' attention to a petition of his neighbors requesting assistance in curtailing the practice of avoiding the weigh station.

Mayor Smith-Mooney stated Mr. Mosce had provided her with a videotape and further information. She noted the State was at a loss of how to enforce violations.

Mr. Mosce suggested a local law restricting trucks from the City's streets. (City of Punta Gorda City Council Mtg Minutes, Oct. 16, 2002)

Solution - Virtual Weigh Site

- Limited Resources
- Overweight Vehicle Hotspots
- Can Be Tied To Security
- Trend is Growing Across USA

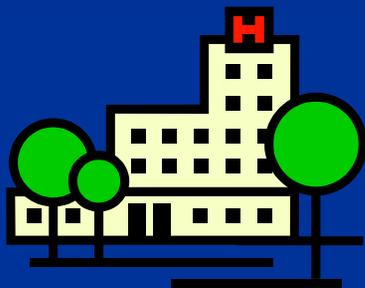


Virtual Weigh Sites

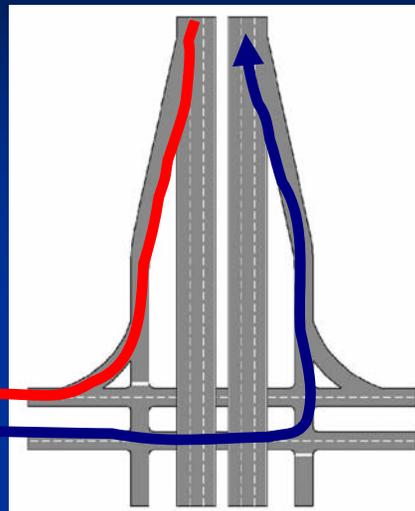
- **What are VWS??**
 - Unmanned data collection sites
 - Data can include:
 - Weights
 - Speed
 - License Plate Read
 - US DOT Number
 - Overview Photo



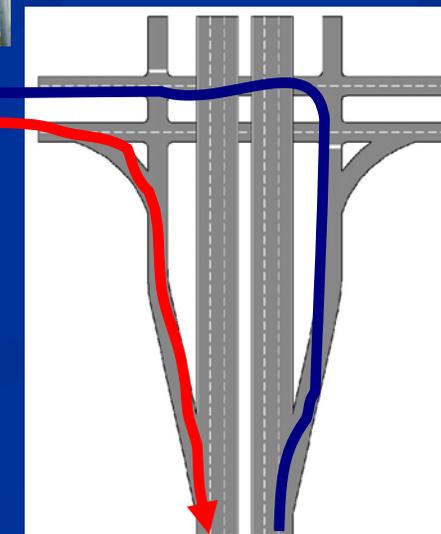
Punta Gorda, Florida Challenge Area Schematic



Punta Gorda, FL



Weigh Station





United States

Los Angeles

San Diego

Phoenix

San Antonio

Houston

Chicago

Toronto

Montreal

Ottawa

New York

Philadelphia

Turks and Caicos Islands

Cuba

Navaassa Island

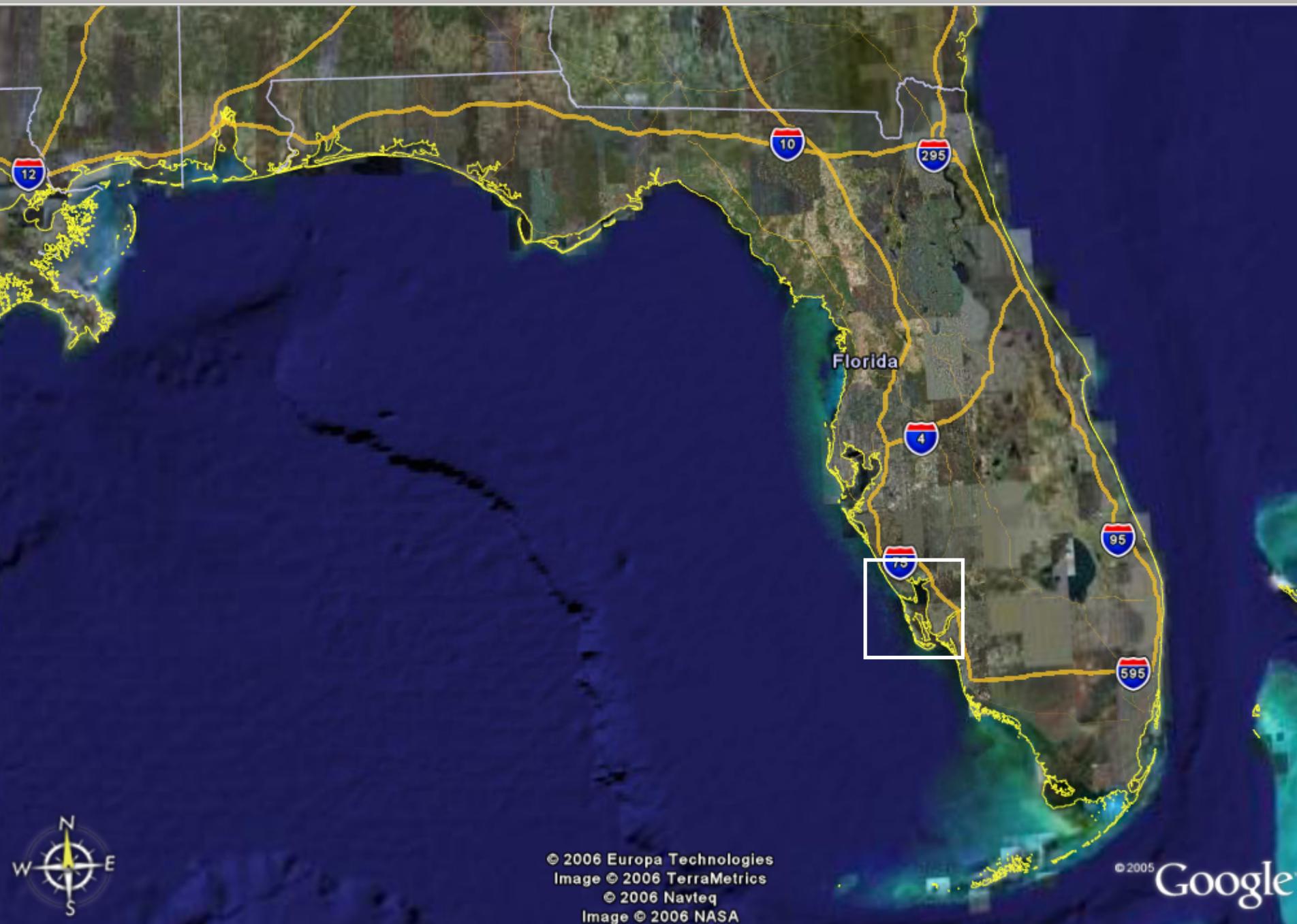
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Image © 2006 NASA

Google

Pointer 34°55'53.28" N 106°20'00.85" W

Streaming ||||| 100%

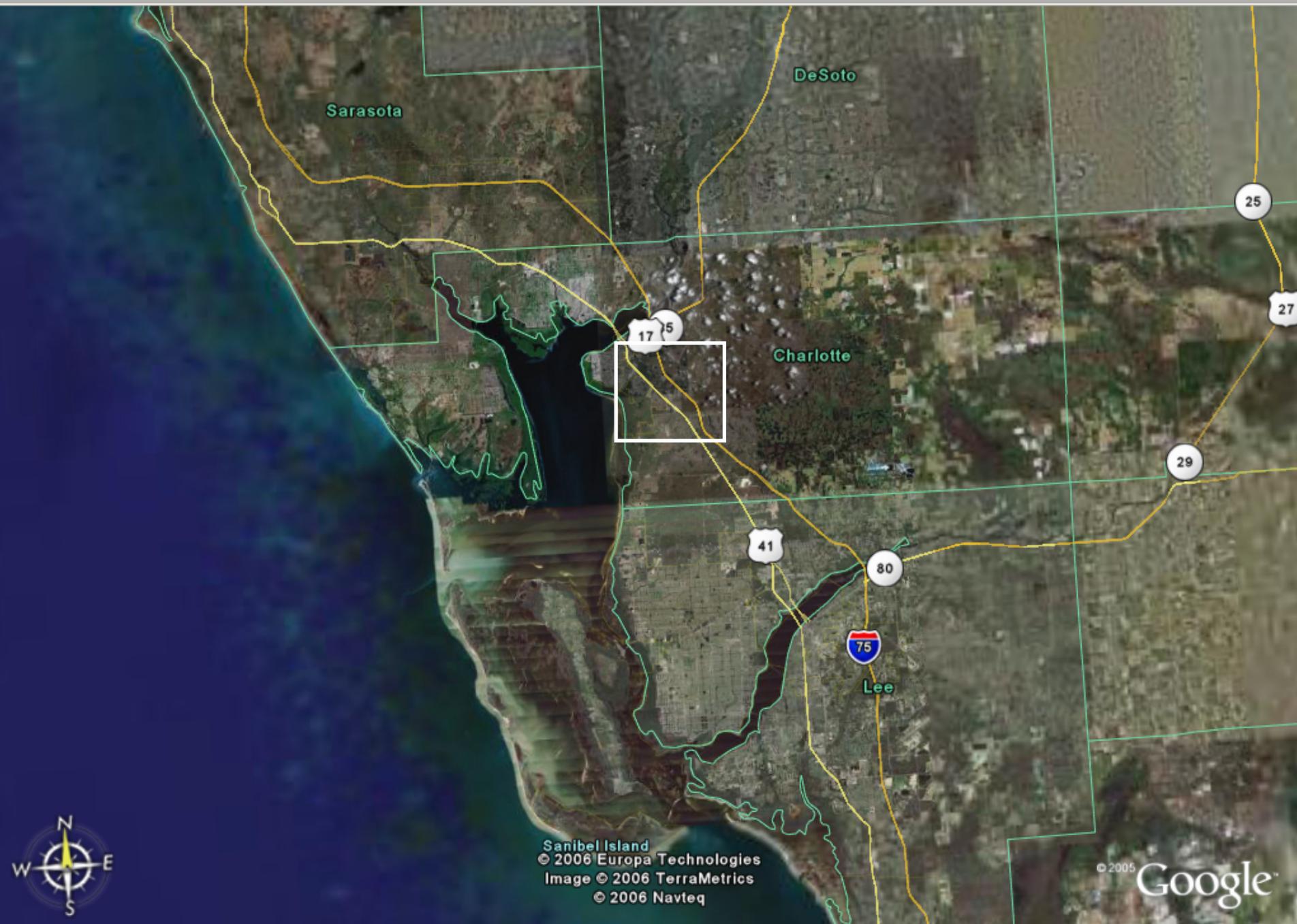
Eye alt 2975.18 mi

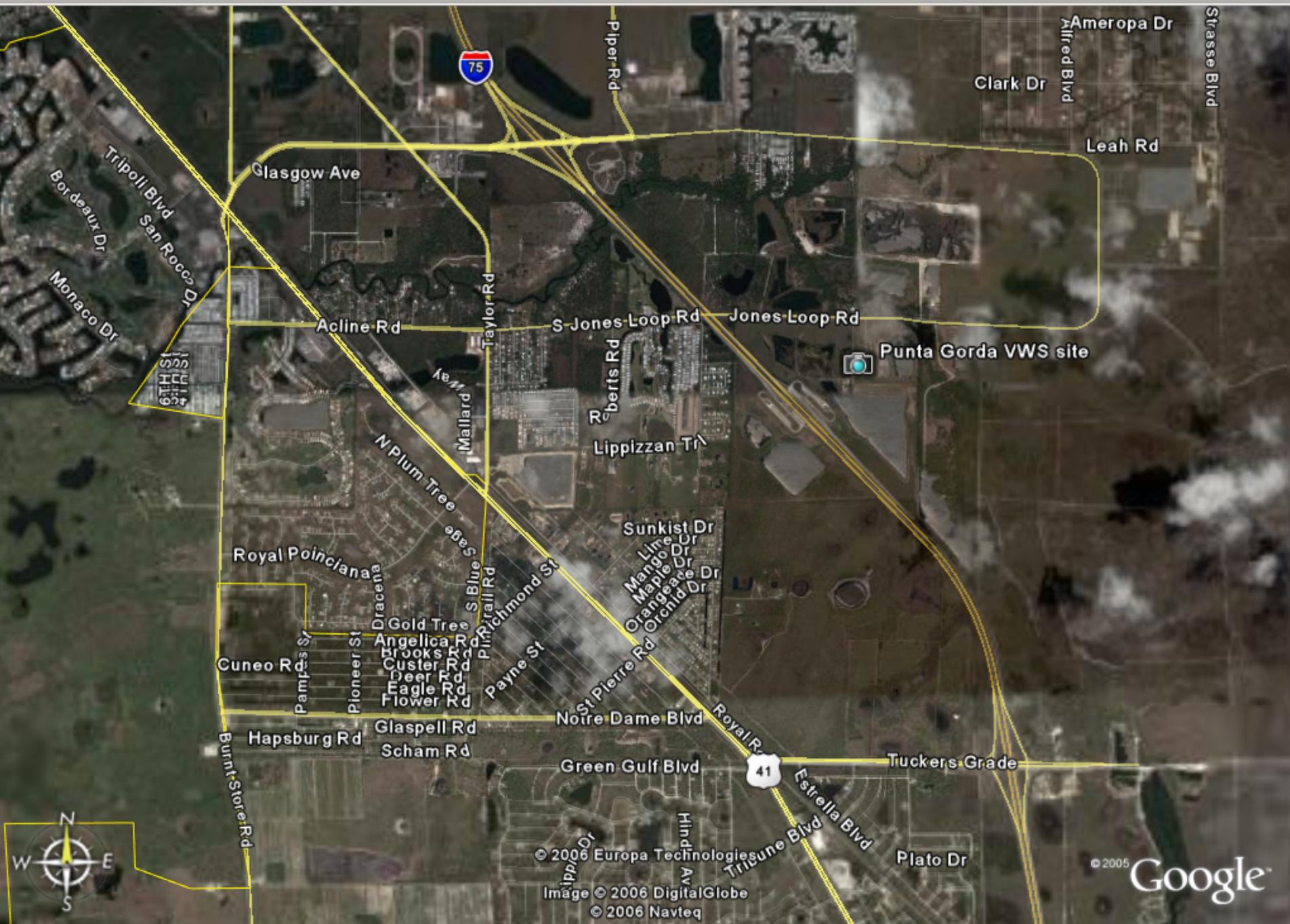


Florida

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Tripoli Blvd
Bordeaux Dr
Monaco Dr
San Rocco Dr

Ameropa Dr
Alfred Blvd
Strasse Blvd

Clark Dr

Leah Rd

Glasgow Ave

Acline Rd

Taylor Rd

S Jones-Loop Rd

Jones-Loop Rd

Punta Gorda VWS site

Richberts Rd

Lippizzan Tr

N Plum Tree
Mallard Way

Royal Poinciana

Sunkist Dr
Lime Dr
Maple Dr
Orange Dr
Orchid Dr

Dracena
Gold Tree
Angelica
Brooks Rd
Custer Rd
Deer Rd
Eagle Rd
Flower Rd

S Blue Sage
Parrail Rd
Richmond St
Payne St

Cuneo Rd
Pampis St
Pioneer St

Hapsburg Rd
Glaspell Rd
Scham Rd

Noire Dame Blvd

Green Gulf Blvd

41

Tuckers Grade

Burnt Store Rd

Royal Rd

Estrella Blvd

Plato Dr

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Punta Gorda Challenge

- Load Posted Bridge
- Who pays??

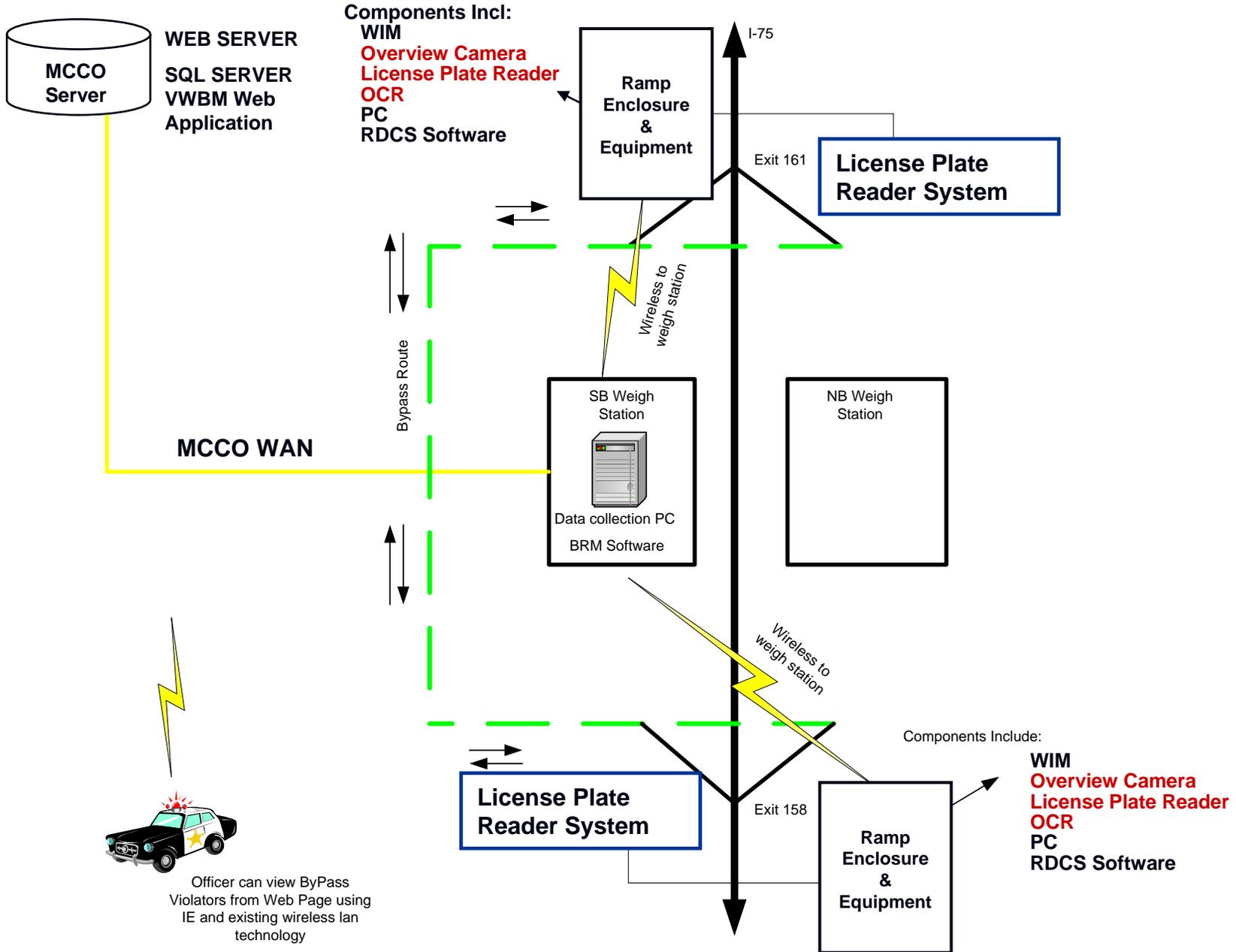


Punta Gorda Virtual Weigh Station

- Weigh In Motion
- Overview
- Cam/License Plate
- Cam
- Violation images and data communicated to ofc computer at Weigh Station facility and available via internet to laptop in patrol car



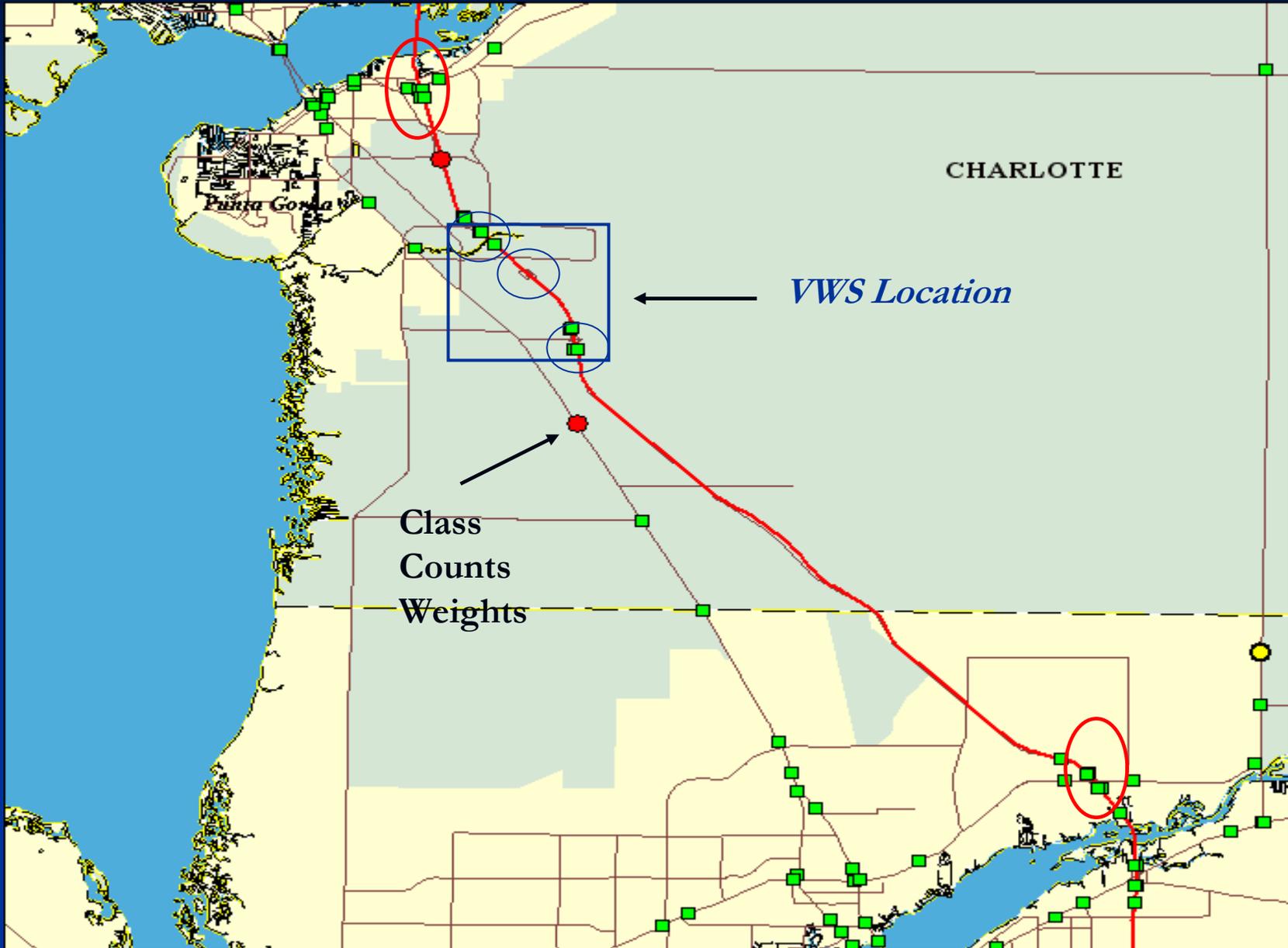
Punta Gorda Virtual WIM ByPass System



FDOT Punta Gorda VWS System Operational (Sept. 29)



Evaluation



Conclusion

- Several other locations in Florida where this VWS approach will help
 - **Florida DOT Contact:**
Craig Wilson
(850) 245-7932
Craig.Wilson@dot.state.fl.us
 - **Mettler Toledo Contact:**
Bob Susor
(614) 438-4823
Bob.Susor@mt.com
- Additional capabilities are under consideration (NCIC and FCIC database 'lookups')

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