

Florida's Traveler Information Systems



Presented by:
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ITS Program
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Agenda

- **Motorist Issues**
- **Traveler Information Systems**
- **Supplemental Data Collection Options**
- **Motorist Assistance Tool**
- **Contracting Method**

Motorist Issues

- **Demand > Supply**
- **Congestion Costs***
 - 2005: \$78.2 billion
 - 2004: \$73.1 billion
 - Average Cost: \$707 per traveler (2005)
 - Based on 437 urban areas

*Source: 2007 Urban Mobility Report,
Texas Transportation Institute



Motorist Issues

- **Congestion Mitigation Options**
 - Add capacity
 - Provide more travel options
 - Manage the demand
 - Increase system efficiency



Motorist Issues

- **Increasing System Efficiency**
 - Computerized traffic signal system
 - Freeway management systems
 - Increased occupancy
 - Traveler information systems



Traveler Information System

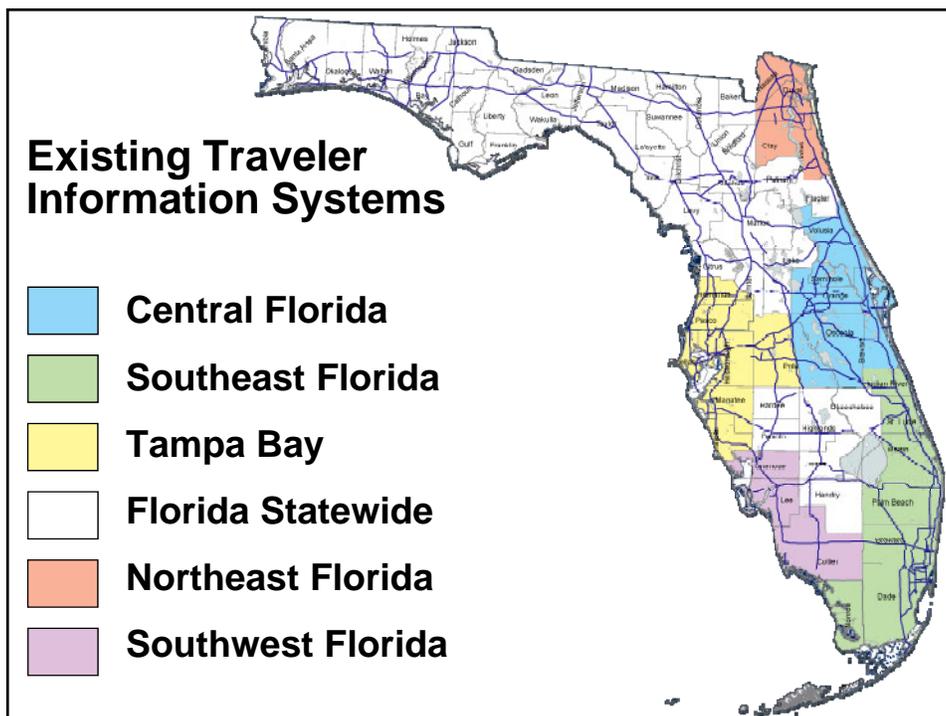
- **What Are Traveler Information Systems?**
 - Provides a way to keep drivers informed about real-time traffic and travel information
 - Utilizes the 511 phone number and f511.com Web site
 - 511 was set aside as the travel information phone number is 2000 by the Federal Communication Commission (FCC)



Traveler Information System

- **How Do Traveler Information Systems Work?**

- Data collection
- Data fusion
- Data dissemination



Traveler Information Systems

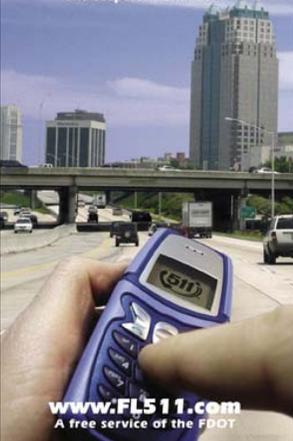
- **Next Generation Statewide Advanced Traveler Information System (ATIS) Architecture**
 - Regional transportation management centers serve as focal point for data collection
 - SunGuide™ serves as the data fusion system
 - Centralized dissemination system (511 and Web site)





**Call 511 for
Travel Information**

Expanded Central Florida system
provides major road travel times, as
well as airport, public transportation
and seaport information.



www.FL511.com
A free service of the FDOT

Traveler Information Systems

- **Next Generation Statewide ATIS Elements**
 - Real-time traffic information
 - Video
 - Personalization
 - Interactive map
 - English/Spanish

Traveler Information System

- **Next Generation Statewide ATIS Design**
 - Established a need for the project
 - Developed a concept of operations
 - Built system requirements
 - Employed a spiral design process
 - Test to the system requirements

Traveler Information System

- **Next Generation Statewide ATIS Data Collection**
 - Utilize existing sensors and video
 - Utilize probe data
 - Information from Road Rangers
 - Information from Florida Highway Patrol
 - Develop supplemental data collection systems for gaps

Supplemental Data Collection Options

- **License Plate Readers**
 - Optical character readers to record license plates
 - Match license plates
 - Determine speeds based on distance and elapsed time
 - Encrypt and discard to assure privacy
- **Toll Tag Readers**
- **Probe Data Collection**
 - GPS based
 - Cell phone based

Supplemental Data Collection Options

- **License Plate Readers**
 - I-10 in Tallahassee
 - Deployment time – November 2008
- **Probe Data Collection**
 - I-10 in Florida Panhandle
 - Includes arterials
 - GPS and cell phone based
 - Deployment time – November 2008

Motorist Assistance Tools

- **How Do Traveler Information Systems Assist Motorists?**
 - Provides real-time information 24/7
 - Helps users to make informed travel choices
 - Better travel planning
 - Saves time
 - Avoids congestion



Motorist Assistance Tools

- **How Do Traveler Information Systems Assist Motorists?**
 - Reduces stress
 - Increases safety
 - Increases reliability
 - Changes travel behavior

Contracting Method

- **Contract Options**
 - Request for Proposal
 - Invitation to Negotiate

Contracting Method

- **Benefits of the Invitation to Negotiate**
 - Flexible
 - Allows the FDOT to consider options
 - Draws on the experience and expertise of the proposer
 - Negotiates scope and price

Questions?



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