ITS Next Generation

You may be familiar with “smart car” technology that alerts you to avoid hazards while backing up or drastically improves your parallel parking. Well imagine your car telling you to stay awake, watch out for a cyclist ahead or where to find parking available in the next block.

IntelliDrive is the next generation technology planned by the U.S. Department of Transportation (USDOT) and the automobile industry to address safety, mobility and environmental needs. Dedicated Short Range Communications (DSRC) applications will use vehicle-to-vehicle and vehicle-to-infrastructure short range wireless communications to prevent crashes and help you make choices to reduce travel delay and congestion-related auto emissions. USDOT plans to conclude the IntelliDrive research program by 2013 and begin deployment soon after.

To have IntelliDrive capability in our region, the DSRC devices would be installed every half-mile along major corridors. Though the technology is still being developed, we’re planning now to determine the resources needed for phased deployment.

To learn more about IntelliDrive visit www.intellidriveusa.org.

IntelliDrive simulation video produced by HNTB Corporation

North Florida ITS Regional Master Plan: 2010 Update Summary

NorTel Florida ITS Regional Master Plan: 2010 Update Summary

New Dynamic Message Sign on Blanding Boulevard

North Florida TPO

904.306.7500
1022 Prudential Drive
Jacksonville, Florida 32207

www.northfloridatpo.com
Technology makes it possible, but people make it happen.

Since forming the North Florida ITS Coalition in 2003, we’ve planned, funded and installed a tremendous amount of ITS technology. In fact, we’ve exceeded our peers and rival larger planned, funded and installed a tremendous amount of ITS

Nearly five years ago, Facebook was in its infancy and Twitter was being conceived. Who knew this technology would change the way we communicate? At the same time, message signs, traffic cameras and other devices were sprouting up around our region doing the same thing - changing the way we communicate. Intelligent Transportation Systems (ITS) are a lot like social media. Both use constantly evolving technology to share information. And both require collaboration among people to make them valuable.

ITS = Technology + People

Programmed ITS Project Highlights

These projects have construction underway or are funded and scheduled to begin by end of FY 2010/2011.

FREEWAY MANAGEMENT SYSTEMS WITH ITS CAMERAS, SENSORS AND MESSAGE SIGNS

- I-95 from I-295 south to Race Track Rd.
- I-295 northwest quadrant from I-10 to I-95 north
- 9A north and southeast quadrants from Main St. to I-95 south

ARTERIAL MANAGEMENT SYSTEMS

ITS SIGNAL SYSTEM UPGRADES

- Beaver St. from Chaffee Rd. to I-95
- Edgewood Ave. from W. Beaver St. to I-95
- Emerson St. from US-1 to I-95
- Hodges Blvd. from Beach Blvd. to Atlantic Blvd.
- Kernan Blvd. from Beach Blvd. to Atlantic Blvd.
- San Jose Blvd./Hendricks Ave. from Mandarin Rd. to Philips Hwy.
- SR 200 from I-95 to Duval Rd.
- SR A1A from JTB to Palm Valley Rd.
- US-1 from Old Moultrie Rd. to SR 16

ITS CAMERAS

- Atlantic Blvd. from Kingman Ave. to San Pablo Rd.
- Baymeadows Rd. from San Jose Blvd. to SR 9A

ITS SIGNAL SYSTEM UPGRADES WITH CAMERAS

- Beach Blvd. from Atlantic Blvd. to SR A1A
- Blanding Blvd. from Collins Rd. to Old Jennings Rd.
- Philips Hwy. from I-95 to SR 9A

TRANSIT SYSTEMS

- Transit signal priority on Main St. from 1st St. to 63rd St. and two additional corridors

Please see the insert for a map and list of ITS project needs and estimated costs. The complete ITS Regional Master Plan: 2010 Update Report is available in the ITS section at www.northfloridatpo.com.

Road Rangers

Road Rangers play a critical role in preventing, managing and clearing traffic incidents. In addition to assisting disabled motorists, they help other first responders at traffic incidents with securing the scene and directing traffic. This enables fire rescue personnel and law enforcement to focus on saving lives and investigating accidents.

Road Ranger services have been expanded to include I-95 in Nassau and St. Johns counties and I-10 in Baker County through a $500,000 annual sponsorship for FY 2010/11 – FY 2012/13 provided by the North Florida TPO. The sponsorship also includes a new communication system allowing Road Rangers to talk directly to FHP officers handling an incident instead of going through a third-party communications center. This will help save time when clearing traffic backups caused by accidents and disabled vehicles.

ROAD WEATHER INFORMATION SYSTEMS (RWIS)

Living in Florida means dealing with high winds and rain that can make driving on our roads and bridges treacherous. Law enforcement and public works employees have to literally risk their lives to measure wind speeds on our bridges to determine the need for closure during major weather events.

RWIS provides wind speed, visibility and precipitation information to our transportation management center, allowing operators to notify drivers of dangerous weather conditions and efficiently allocate resources to handle incidents.

ROAD WEATHER INFORMATION SYSTEMS (RWIS)

The TIMe4Safety videos remind responders of key principles for effective traffic incident management. The North Florida TPO. The sponsorship also includes a new communication system allowing Road Rangers to talk directly to FHP officers handling an incident instead of going through a third-party communications center. This will help save time when clearing traffic backups caused by accidents and disabled vehicles.

ITS Needs

The North Florida region’s ITS needs for the next five to ten years were developed by prioritizing corridors and considering existing and programmed ITS projects. An increase in freeway surveillance and roadside traveler information, including vehicle detection sensors, dynamic message signs and traffic cameras, are needed to complete coverage of I-95 and provide ITS on I-10, J. Turner Butler Blvd., Hart Bridge Exp., State Road 9B and the Outer Beltway.

Arterial corridors needing ITS signal controllers and traffic cameras at signalized intersections include US 301, Airport Rd., Lem Turner Rd., Heckscher Dr., Wonderwood Connector, Monument Rd., Normandy Blvd., 103rd St., CR 210/Palm Valley Rd., Race Track Rd. and State Roads 16, 207, 214 and 312.

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The North Florida TPO and fellow ITS Coalition members collaborated to produce a handbook and video training series to remind responders of key principles for effective traffic incident management. The TIMe4Safety videos feature a cast of 26 real life responders from local law enforcement, fire rescue, transportation and towing agencies participating in field interviews and a mock scene demonstration. Since the fall 2009 release, the training program has been viewed by 30,000 responders in Florida and distributed to responder agencies across the U.S., Canada and Australia.

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The North Florida TPO and fellow ITS Coalition members collaborated to produce a handbook and video training series to remind responders of key principles for effective traffic incident management. The TIMe4Safety videos feature a cast of 26 real life responders from local law enforcement, fire rescue, transportation and towing agencies participating in field interviews and a mock scene demonstration. Since the fall 2009 release, the training program has been viewed by 30,000 responders in Florida and distributed to responder agencies across the U.S., Canada and Australia.

ITS Accomplishments 2003 - 2010

- Completed 54 miles of freeway management systems with 17 miles under construction
- Completed 35 miles of arterial management systems with 72 miles under construction
- Installed a street contraflow signal system for the Jacksonville Sports Complex at Bay St.
- Installed transit signal priority on Atlantic Blvd. from San Pablo Rd. to Regency Square
- Installed automatic vehicle location and automatic passenger counters on all JTA buses
- Installed I-Stop electronic lighted JTA bus stop signage at 15 locations
- Installed on-board cameras on 68 JTA buses
- Activated My Florida 511 web and phone personal traffic alert service
- Installed Road Weather Information Systems on the Dames Point, Buckman, Vilano and SR 302 bridges with six additional locations programmed

Road Ranger in action

Road Weather Information Systems (RWIS)

RWIS on the Buckman Bridge

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- Installed controlled-access electronic tolling system on I-95 from I-295 south to Race Track Rd.

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ITS DEPLOYMENT AND NEEDS
North Florida ITS Regional Master Plan: 2010 Update Summary

Legend:
- ITS Deployment Needs
- Existing ITS Corridors
- Ongoing ITS Projects
- Programmed ITS Projects
- Outer Beltway Future Road
- SR 9B Future Road
- North Florida TPO Boundary

Major Roads
- Cities
- Water Bodies
- County Boundaries
- RWIS Phase-II Locations
### ITS FUNDING NEEDS
North Florida ITS Regional Master Plan: 2010 Update Summary

<table>
<thead>
<tr>
<th>No.</th>
<th>Program</th>
<th>Corridor</th>
<th>Limits</th>
<th>Capital Cost</th>
<th>Annual O&amp;M Cost</th>
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<td>1</td>
<td>I-95 (Nassau)</td>
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<td>SR 200 (W of I-95)</td>
<td>Mickler St. (Callahan) to I-95</td>
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<td>SR 200/SR A1A</td>
<td>Old Nassauville Rd. to SR A1A</td>
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<td>33</td>
<td>SR A1A</td>
<td>CR 214 to CR 206</td>
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<td>34</td>
<td>CR 210/Palm Valley Rd.</td>
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<td>35</td>
<td>SR 301/SR 200</td>
<td>Beaver St. to Mcklter St. (Callahan)</td>
<td>$893,000</td>
<td></td>
<td>$36,135</td>
</tr>
</tbody>
</table>

*Traffic Incident Management (Dynamic Detour System/Trailblazers)*

- Flashing Beacon Signs on Arterials: $1,760,000
  - Total Cost: $123,200

*Road Weather Management (RWIS)*

- Wind Sensors on 18 Bridges: $1,051,600
  - Total Cost: $90,471

*Transit Management*

- Programmed Transit Projects: $280,000
  - Total Cost: $350,000

*Regional Traffic Management Center*

- Programmed at a Downtown Location: $18,507,900
  - Total Cost: $925,395

*IntelliDrive (Intelligent Vehicles)*

- Dedicated Short Range Communications on Programmed Major Routes: $6,896,640
  - Total Cost: $862,080

Total Cost: $69,767,299

Total Annual O&M Cost: $4,159,619

*Locations to be determined. Please see full report for details.*
ITS Next Generation

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