

## **Core Strategies for the Update of Florida's ITS Strategic Plan**

<b>Strategy Number</b>	<b>In 2004 Business Plan? (Section No.)</b>	<b>Core Strategy</b>
<b>Goal 1: Move People and Goods Safely</b>		
1		Develop diversion routes, arterial trailblazer signage and adjustment plans for local signal system timings during an interstate diversion. Also document impacts and develop procedural guidelines.
2		Develop a concept of operations plan or procedures for evacuation coordination and management utilizing ITS.
3		Develop an emergency evacuation module under the SunGuide software development effort.
<b>Goal 2: Preserve and Manage the System</b>		
4	2.3.2	Develop a statewide 511 system that standardizes messages across regions and jurisdictions and provides a central call in-take and transfer system.
5		Expand statewide 511 marketing and outreach.
6	4.2.1 and 4.2.3	<p>Prepare a statewide Concept Plan for the development and use of travel-time data collection systems in Florida.</p> <ul style="list-style-type: none"> <li>• Establish a vision and purpose for data collection and determine how it will be used to support planning and operations functions.</li> <li>• Determine the corridors for which travel time will be collected, the density coverage and frequency and appropriate technology.</li> <li>• Develop project architectures to ensure proper computing, storing, sharing and usage of collected data.</li> </ul>
7		Implement statewide the findings of the iFlorida project to enhance traffic detection, data collection, quality, and reporting and to establish a data archiving and warehousing system.
8	4.2.1	Conduct concept testing for probe data collection techniques such as cell-phones-as probes, Heavy Vehicle Electronic License Plate (HELP) transponders, and license plate readers (LPRs) in appropriate geographic areas.
9	7.1.2, 6.2.1 and 4.1.1	<p>Based on funding availability, annually update the Ten-Year ITS Cost Feasible Plan (CFP) by adding a new tenth year each year.</p> <ul style="list-style-type: none"> <li>• Focus on completion of FIHS ITS infrastructure in rural areas</li> <li>• Include funding for arterial projects that enhance and are interoperable with the FIHS ITS infrastructure</li> <li>• Maintain and enhance the ITS device database for configuration management, maintenance and upgrade purposes</li> </ul>

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10	4.2.2	Establish regular reporting of usage statistics for Motorist Aid Call Box system
11	4.1.2	Establish statewide Microwave Network management system reporting
12	7.1.1	Implement and monitor ITS Performance Measures <ul style="list-style-type: none"> <li>• Develop data collection process to support ITS performance measures</li> </ul>
<b>Goal 3: Enhance Economic Competitiveness</b>		
13		Build on the iFlorida project to integrate key Telemetered Traffic Monitoring Stations (TTMS) with adjacent video detection locations to improve real-time travel data collection in rural areas.
<b>Goal 4: Enhance Quality of Life and the Environment</b>		
14		Develop a Strategic ITS Information Privacy Plan and Standards which addresses privacy issues, legislation and recommends a structured outreach approach. <ul style="list-style-type: none"> <li>• Develop privacy and security-related templates for inclusion in Requests for Proposals and Invitations to Negotiate.</li> <li>• Develop a structured public outreach program to inform the public about the uses of ITS data and efforts to protect public privacy.</li> <li>• Develop a formal policy for the FDOT Districts and local agencies on the use of all ITS components including CCTV video, probe data, etc. that may be viewed as intrusive.</li> </ul>
15	2.2.7	Integrate ITS activities and processes into FDOT's planning, design and production processes. Define the roles and responsibilities of other Offices and Programs in implementing ITS. <ul style="list-style-type: none"> <li>• Develop and implement a standardized Systems Engineering Approach which can be customized by deployment agencies</li> </ul>
<b>Goal 5: Deploy an Integrated, Effective System</b>		
16		Provide a review and evaluation of available detection technologies and recommend applications for each.
17		Develop a plan to complete the fiber optic communication network for FIHS facilities not programmed in the CFP.

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18		<p>Develop an operations and maintenance manual that can be tailored for each district which identifies guidelines and procedures for operating and maintaining ITS for each type of deployment.</p> <ul style="list-style-type: none"> <li>• Identify in-house roles and responsibilities and recommend activities for outsourcing.</li> <li>• Identify minimum reporting requirements and frequencies.</li> <li>• Recommend long-term strategies for service expansion and develop a methodology for determining labor needs and costs.</li> <li>• Identify existing funding sources for operations and maintenance and recommend additional funding sources and the methodology for programming O&amp;M projects into the FDOT work program.</li> </ul>
19	3.2.5	<p>Include state and local transit agencies in ITS forums such as the ITS Working Group Meetings, training workshops, and ROOs.</p>
20	2.2.2	<p>Update the Statewide ITS Architecture and Standards for consistency with Rule 940 and provide technical assistance to districts regarding completion of Rule 940 requirements.</p>
21	2.2.3	<p>Encourage MPOs and local agencies to acknowledge a regional ITS architecture and track agency documentation of acknowledgement.</p>
22		<p>Develop an ITS Approved Products List.</p>
23		<p>Explore the possibility of developing a statewide contract for procurement of ITS devices.</p>
24	5.1.2	<p>Provide guidance and training for the implementation of various ITS procurement strategies including lessons learned from other ITS programs and develop guidelines for each procurement method which consider project cost estimation, phasing, programming, requirements, selection, and purchasing.</p>
25	2.2.5	<p>Foster and support the development of Regional Operating Organizations (ROOS) around the state.</p> <ul style="list-style-type: none"> <li>• Define the ITS Section's role in the ROOs and determine how the ROOs will coordinate and share data with the Change Management Board and other ROOs.</li> <li>• Prepare guidelines for the establishment of ROOs and modify Florida Statutes to address regionalization of transportation operations.</li> </ul>
26	2.2.5 and 2.2.6	<p>Develop a plan to manage and maintain transportation operations within the region and formalize the process in a regional concept of operations.</p>

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27		Explore the feasibility of broadband wireless communications and document lessons learned from other districts or Florida projects.
28		Develop a policy to promote the development of before and after studies to assess the impacts and benefits of ITS.
29	5.1.1	<p>Conduct a formal assessment of ITS training courses for each ITS professional level and recommend a business plan for implementing a structure training program.</p> <ul style="list-style-type: none"> <li>• Address funding needs and sources, course marketing, training logistics, course content, roles and responsibilities of the partnering agencies, and new course development.</li> <li>• Explore opportunities for tapping into national ITS training resources.</li> <li>• Evaluate the benefits of an ITS professional certification or qualification process.</li> <li>• Improve and expand the training program to include more courses for professional development hours (pdhs).</li> </ul>
30	6.4.1	Develop and distribute mission, vision, objectives and guidelines for ITS research paper submittals and selection criteria.
31	4.1.3	Evaluate use of Statewide Microwave Network for telecommunication needs for upcoming projects and inform districts of possible applications.
32		Develop and implement ITS standards.
33		Create a centralized repository on a web site for ITS agreements, scopes and contracts.
<b>Goal 6: Provide a Well-Prepared and Secure Transportation System</b>		
34		Prepare vulnerability assessment, response, recovery and implementation plans for all critical infrastructure including bridge, tunnels and state Regional Traffic Management Centers (RTMC). Prepare and multimodal systems and facilities such as transit, rail, airports, and seaports.
35		Prepare vulnerability assessment, response, recovery and implementation plans for RTMC cyber systems and field equipment.

## Long-Term Strategies for Future Strategic Plan Updates

*The following strategies were proposed as short-term strategies for the implementation and update of Florida's ITS Strategic Plan. However, after review and input by the Districts and participating FDOT Departments, these strategies were considered for implementation over the long-term horizon of the Strategic Plan.*

- Develop a formal policy, procedures, and public outreach program for implementation of Automated Vehicle Monitoring and Enforcement (AVME) to reduce accidents and collisions. Focus on high accident locations and construction locations for priority implementation.
  - Conduct a pilot program for testing of AVME in Florida.
  - Prepare and implement legislation to support AVME in Florida.
- Implement recommendations from Turnpike's Cooperative Vehicle Highway Automation Systems (CVHAS) Study on statewide level.
- Pursue further research and development for the implementation of value pricing to alleviate congestion in major urban areas.
  - Develop a statewide policy on value pricing that recommends a uniform approach encompassing state and local jurisdictional policies and identifies legal and enforcement issues that may be encountered.
  - Prepare an outreach program to gain acceptance and inform the public as to the purpose, need and operations of a value pricing program.
  - Organize a small consortium of value pricing experts to serve as a technical resource for local and state policy groups.
- Assist districts in implementing detection and monitoring systems in the rural areas, in addition to incident management, emergency response services, and rural tourism information systems.
  - Develop a rural marketing and funding plan that would leverage funding from corridor coalitions, tourism, public safety, transit, and federal lands.
  - Identify rural "hotspot" locations for immediate deployment.
  - Establish a partnership with non-transportation agencies, including the Florida State Research and Development Council (FSRDC), Florida Commission for the Transportation Disadvantaged (CTD), VISIT FLORIDA, Native American Organizations, and the National Park Service.
  - Implement a rural community outreach program to quantify mobility and safety needs, build ITS awareness, and broaden stakeholder support.
- Build on the iFlorida project to integrate key Telemetered Traffic Monitoring Stations (TTMS) with adjacent video detection locations to improve real-time travel data collection in rural areas.

- Identify early winners for Advanced Public Transportation Systems (APTS) projects in a region and recommend strategies and opportunities for coordination with regional ITS operations.
  - Promote the use of Automated Vehicle Location (AVL) systems to improve the efficiency of transit operations.
  - Integrate proposed high-speed rail and existing commuter rail with regional ITS operations.
- Ensure interoperability between APTS and regional communication systems.
- Explore technologies, and opportunities for enhancement of the transportation and communication infrastructure to support Automated Vehicle Safety Systems (AVSS).
  - Update Statewide ITS Architecture to include AVSS market packages for long-term duration.
- Utilize the U.S. DOT integration methodology and survey instruments to collect Florida ITS integration information.
  - Expand existing database to include U.S. DOT integration characteristics.
  - Annually assess Florida's integration levels based on U.S. DOT metrics and include integration as a new ITS performance measure.
- Develop an R&D program, managed by FDOT, to elicit, evaluate and fund ITS research proposals that support the state and national ITS programs.
  - Evaluate the feasibility of a state research center to be developed through public-private partnerships.
  - Pursue additional funding sources for ITS R&D including federal earmarks, joint proposals with other states, and partnerships with private sector agencies and universities.
  - Participate in ITS America's Research, Integration, Training and Education (RITE) forum for research information and idea exchange.
  - Annually publish and disseminate a Florida ITS R&D report.
  - Coordinate R&D program with professional capacity building program and recognize successful efforts through the ITS Florida annual awards program.
- Develop architectural framework and tools and technologies necessary to enhance operational response to a variety of recurrent and other situations.
- Prepare a statewide APTS concept plan to guide the development, deployment, and integration of APTS around the state.
- Coordinate transit operations with RTMC operations.
- Assess the feasibility of using buses as probe vehicles.