



Florida's Intelligent Transportation Systems

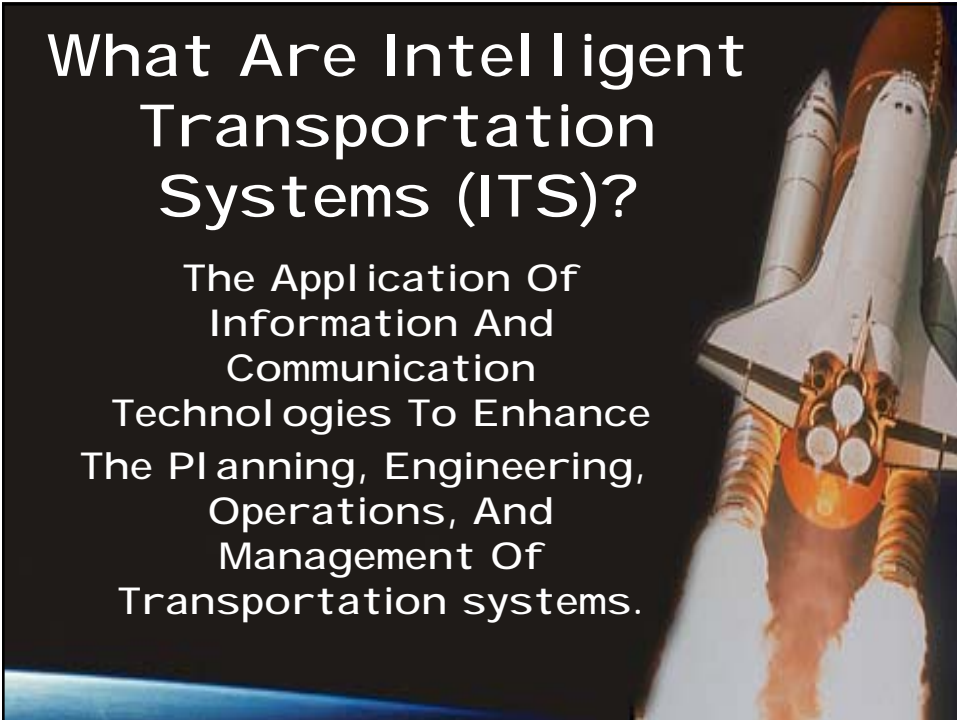
We're Really Taking Off!

Outline

- What Are Intelligent Transportation Systems (ITS)?
- Where Are We Now?
- Mission and Goals
- Commitment
- Participation
- Accomplishments

What Are Intelligent Transportation Systems (ITS)?

The Application Of Information And Communication Technologies To Enhance The Planning, Engineering, Operations, And Management Of Transportation systems.



Where Are We Now?



Current Situation

Mainline Corridors	Existing Coverage (% of Miles)				Dynamic Message Signs	Highway Advisory Radio
	CCTV	Vehicle Detection	Road Rangers	Call Boxes		
I-4	34.2%	28.0%	64.3%	29.0%	22.9%	0.0%
I-10	2.6%	1.6%	6.0%	99.1%	0.7%	0.0%
I-75	0.1%	0.0%	36.4%	98.1%	0.1%	0.0%
I-95	4.6%	3.0%	29.7%	70.5%	5.2%	0.0%
Florida's Turnpike	0.0%	0.0%	47.8%	100.0%	0.2%	20.4%
Total	4.5%	3.4%	32.1%	86.4%	3.3%	3.4%

Source: PBS&J

Notes:

- (1) Mainline only; does not include other FHHS limited-access routes.
- (2) Does not include closed-circuit television cameras (CCTV) at tollbooths.
- (3) Does not include telemetered traffic monitoring sites (TTMS).
- (4) Does not include the Traveler Information Radio Network (TIRN).
- (5) The Turnpike currently has nine operational highway advisory radio stations.
- (6) The range of influence considered is: 1 mile in each direction for a closed-circuit television cameras, 0.5 mile for a vehicle detection station, 1 mile in each direction for a call box, 0.5 mile for a dynamic message sign and 3 miles in each direction for a highway advisory radio.



Full-Size Map Attached



Full-Size Map Attached

Advanced Traffic Management Systems

- Freeway and Incident Management
 - I-95 Miami-Dade
 - I-4 Orlando
 - I-10 Jacksonville
- Urban Arterial Traffic Management
 - 54 Coordinated Signal Systems
 - 3 Adaptive Signal Systems



Advanced Traveler Information Systems (ATIS)

- SunGuideSM Advanced Traveler Information Systems (ATIS)
 - Miami-Dade, Broward and Palm Beach Counties
 - Smartraveler.com
 - 511 Telephone Service
 - Integrated Transit Information
- 511
 - Statewide Plan
 - I-4 Hotline Orlando
- Tampa Bay Advanced Traveler Information Systems (ATIS)
Procurement in Summer 2002



Commercial Vehicle Operations (CVO)

- Weigh-in-Motion Sites
 - Five Operational
 - Three Construction/Testing
 - Three Planning/Design
 - Virtual Weigh-in-Motion Research Project
- National I-10 Freight Corridor Study
- Commercial Vehicle-Highway Automated Systems (CV-HAS) Pooled Fund Study



Commercial Vehicle Information Systems and Networks (CVISN)

- Commercial Vehicle Administrative Processes
 - Streamlining Licensing Process
 - Reducing Costs For Carriers and Administration
- Automated Safety Inspections
- Automated Preclearance
 - PrePass

Electronic Payment Systems (EPS)

- Integrated Under SunPass™ Brand
- 700,000 Transponders
- 1 Million by 2005
- Five Partner Agencies



Advanced Rural ITS

- Call Box System
 - 1,450 Miles
 - 50,000 Calls per Year
- Statewide *FHP Service
- Road Rangers Service Patrol



Tel ecommunications Systems

- Microwave Backbone Covering 1,400 Miles
- Fiber Optic Networks
 - Project Specific
 - Potential Public/Private Partnership



A photograph of a space shuttle launching, viewed from a low angle looking up. The shuttle is white with orange and black external tank and boosters. It is ascending vertically, leaving a large plume of white smoke and orange fire from its engines. The Earth's horizon is visible at the bottom left.

Mission and Goals

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Mission

Enhance the Safety and
Mobility of People and Goods,
Economic Competitiveness, and
the Quality of Our
Environment and Communities

Serve Commuters, Tourists,
Commercial Vehicles, and
Evacuees

Provide an Effective ITS System
for Florida's Travelers

Goals

- Move People and Goods Safely
- Preserve and Manage the System
- Enhance Economic Competitiveness
- Enhance Quality of Life and the Environment
- Deploy an Integrated, Effective ITS System



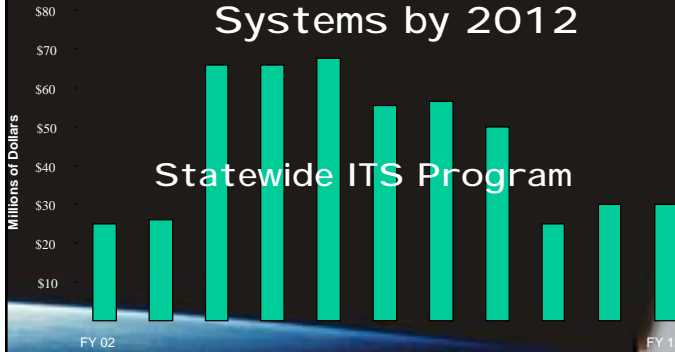
Commitment



Commitment

Dedicated Statewide ITS Program
\$496 Million for ITS by 2012

\$1.2 Billion Total Dedicated for
ITS, Service Patrols, SunPass™,
Weigh in Motion and Signal
Systems by 2012



Full-Size Map Attached

Anticipated Benefits Thru 2012

- Save 120 Lives
- Prevent 11,000 Traffic-Related Injuries
- Prevent 26,000 Total Accidents
- Save 20 Million Hours From Congestion

**\$3 Billion Dollars In Safety
Benefit And Travel Time
Savings**



ITS Benefits For Evacuation Coordination

- Reduce Evacuation Times
- Provide Information to Travelers Pre-Trip And En-Route
- Provide Surveillance
- Enhance Traffic and Incident Management



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Participation

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Public/Private Partnerships

- SE Florida SunGuideSM
 - Partnership With SmartRoute Systems in Tri-County Area For Commercialization of Traveler Information In Exchange For Information Provider Services
- Lodestar/Spectrasite Towers
 - Right-of-way Use Agreement In Exchange For a Percentage of Gross Income
- Florida Fiber Network
 - Right-of-way Use Agreement In Exchange For Fiber Infrastructure

ITS Working Group

- Meets Three Times per Year
 - March, July, December
- Discusses Topics of Statewide Interest
- Includes
 - FDOT Districts
 - ITS Program Office
 - Metropolitan Planning Organizations
 - ITS Florida
 - Private Sector Partners
 - Academia
 - Other Public Partners

See myflorida.com for info

Other Partnerships

- Commercial Vehicle Information Systems Networks Steering Group
- Team Florida
- ITS Florida
- Orlando ITS Consortium
- Miami-Dade Regional Transportation Organization
- Transpo 2002

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Accomplishments

For Fiscal Year
2001/2002

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Accomplishments

- Ten-Year ITS Cost-Feasible Plan
- 511 Deployments in Miami and Orlando
- Advanced Traveler Information Systems (ATIS) Feasibility Studies
- Statewide 511 Plan
- Commercial Vehicle Operations/Commercial Vehicle Information Systems Networks (CVO/CVISN) Business Plan
- Procured Electronic Credentialing Software For Commercial Vehicles
- Studies on Innovative Data Collection Techniques
- Implementation Guidelines For Metropolitan Planning Organizations
- Recognized By ITS America For The Success of Florida's 2002 Exhibition

Accomplishments

- Conducted 18 Statewide ITS Training Sessions and Workshops
- Published Highlights of Our Program in Traffic Technology International Magazine
- Traffic Management Center (TMC) Software Study
- Statewide Systems Engineering Approach
- Received FHWA Hurricane Evacuation Assistance Grant
- Received FHWA 511 Deployment Assistance Grant
- Adopted Statewide ITS Architecture
- Developed Corridor ITS Architectures

For More Information

MyFlorida.com
and
FloridaITS.com

FDOT ITS Office
850-410-5600