



North Florida
Regional Transportation
Management Center



**PARTNERS IN
INNOVATION**

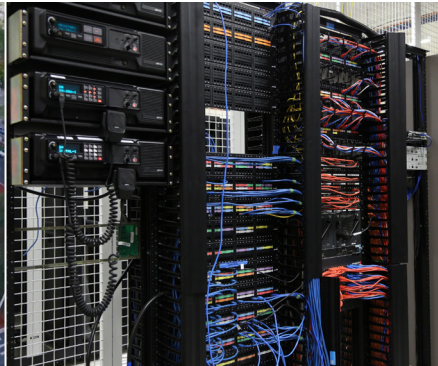


REGIONAL TRANSPORTATION MANAGEMENT CENTER FEATURES

NORTH FLORIDA TPO

INVESTMENT

- Funded the design and construction cost of RTMC building just under \$11 million.
- Has 5,000 square foot office space with Board Room featuring advanced communications and environmental controls.
- Provided designated electric vehicle parking with ChargeWell charging stations through their Clean Fuels program.
- Invested over \$30 million in intelligent transportation systems since 2003.



NORTH FLORIDA REGIONAL TRANSPORTATION MANAGEMENT CENTER (RTMC)

COORDINATION

- Building owned and operated by FDOT on land leased from Florida Department of Management Services.
- 20,000 square feet office space including 6,572 square foot RTMC floor.
- Houses FDOT, FHP, FWC, JSO and other personnel needed to coordinate planning and response for major events and incidents. This is the first TMC in Florida to co-locate staff across agencies.

TECHNOLOGY

- Main video wall is 24' x 6'9", which is equivalent to 300" TV. There are also six smaller four-monitor video walls.
- Total of 32 RTMC floor workstations, costing \$30,000 each. Each workstation has its own ergonomic adjustments and climate control.
- Roughly 23 miles of communications cable within building.

ENERGY

- Energy efficiency features include LED lighting to save energy and reduce worker fatigue; redundant HVAC systems with low energy usage; and potential LEED silver certification in process.

SECURITY

- Capable of withstanding a Category 3 hurricane and sustaining itself for seven days through a power outage.
- Secure floor that requires State Law Enforcement Radio System (SLERS) clearance.
- South wall comprised of bulletproof windows per FHP requirements for officer safety.
- FHP provides dispatch for ten state law enforcement agencies.
- The first facility in Florida to be interconnected to FDLE for combined response to Homeland Security threats.



INTELLIGENT TRANSPORTATION SYSTEM DEVICES

- 1 **Dynamic Message Signs** give motorists information on traffic conditions, travel times, warnings and alerts. Safety messages or typical travel times are posted when the highway is incident-free.
- 2 **Closed Circuit Television Cameras** along interstates and major roadways give TMC operators live views of traffic conditions. Operators can spot incidents as they happen, coordinate emergency response and assistance as needed and program incident information for dissemination on message signs and the FL511 system.
- 3 **Traffic Signal Controllers** allow signals to react in real-time to changing traffic volumes, work in concert with adjacent signals and capture data for analysis, so traffic can be managed more effectively.
- 4 **Vehicle Detection Sensors** use microwave radar to measure the volume and speed of vehicles and inform operators of traffic backups. This enables operators to post delay information on message signs, and redirect cameras to investigate if the cause of congestion is not evident.
- 5 **Blue TOAD Sensors** (Travel Origin And Destination) provide travel time, roadway speed and origin/destination data through Bluetooth devices that recognize cell phone signals in passing vehicles.
- 6 **Wind Sensors** provide law enforcement and TMC operators information on dangerous weather conditions that can affect travel safety.
- 7 **511** is a free phone and web service providing real-time information on traffic conditions and incidents 24/7. TMC operators update the phone and web systems as traffic conditions change.

ACCOMPLISHMENTS

- Constructed the North Florida Regional Transportation Management Center (RTMC)
- Developed a Dynamic Detour System
- Provided funding for the Road Ranger program
- Developed and deployed TIme4Safety Traffic Incident Management Training for Responders
- Completed 205 miles of freeway and arterial management systems with 75 miles under construction
- Installed Road Weather Information Systems on bridges for evacuation alert purposes
- Deployed over 140 Bluetooth sensors throughout Clay, Duval, Nassau and St. Johns counties
- Installed a stadium contraflow signal system for the Jacksonville Sports Complex at Bay Street
- Installed transit signal priority
- Installed automatic vehicle location, automatic passenger counters and on-board cameras on JTA buses
- Installed I-Stop electronic lighted JTA bus stop signage
- Activated My Florida 511 web and phone personal traffic alert service
- Formed the North Florida Intelligent Transportation Systems Coalition and developed a Regional ITS Master Plan

THE NEXT WAVE - AUTOMATED VEHICLES

Because of our extensive ITS investment and deployment, we are poised to take advantage of automated vehicle technologies as they become available. Automated vehicles have safety control functions, such as braking or steering, that happen without the driver's input. They may operate using sensors within the vehicle or by connected systems where vehicles and roadside infrastructure communicate wirelessly.

Automated vehicles have the potential to bring about dramatic safety, mobility, energy and environmental benefits to our nation's transportation system. These benefits could include crash avoidance, reduced energy consumption and vehicle emissions, reduced travel times, improved travel time reliability and multi-modal connectivity, and improved transportation system efficiency and accessibility, particularly for the disabled and growing aging population.

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