

THE SUNGUIDE® TMC

DURING CONSTRUCTION (2004)

TODAY (2024)



The Florida Department of Transportation's (FDOT) District Six SunGuide® Transportation Management Center (TMC) opened its doors June 25, 2004. The center is a 32,000 square foot, state-of-the-art facility that serves as the regional traffic management hub for south Florida. It houses the District's Transportation Systems Management and Operations (TSM&O) Program that monitors traffic in real-time and promotes the safety and mobility of the transportation network in Miami-Dade and Monroe Counties.

FDOT opened the SunGuide TMC 20 years ago with the vision of making it the traffic nerve center of the community. The goal was to build an innovative facility that houses the growing TSM&O Program to meet the future needs of the region. Prior to opening the SunGuide TMC, the District started building the groundwork for what the program is today. It began instrumenting several state roads in the 1990s with Intelligent Transportation Systems (ITS) devices such as closed-circuit television (CCTV) cameras, dynamic message signs (DMS), roadway detectors, and other equipment. It installed hundreds of miles of fiber optic communication to connect devices back to the SunGuide TMC where traffic operators monitor the roads, coordinate the clearance of traffic incidents, and publish traveler information 24 hours per day, 7 days per week.

Today, the TSM&O Program and its SunGuide TMC is considered a national leader in the industry. It continues deploying innovative projects that are improving the safety and people-moving capacity of its roadways. Over the past 20 years, FDOT District Six has remained steadfast in its vision for the SunGuide TMC. The facility serves as the epicenter of traffic management in south Florida and is equipped to serve the region for years to come.



SNAPSHOT OF THE PAST 20 YEARS

2004 - 2024

TSM&O Resources at Work

The TSM&O Program has Reduced Roadway Clearance Times by an Annual Average of 40%

Baseline Average Roadway Clearance Time was 50 minutes in 2004, compared to 30.9 minutes in 2024 ▶	2024	30.9 minutes
	2004	50 minutes

Managing Traffic in Real-Time Promotes Safer, More Reliable Roadways

Traffic Events Managed since 2004

863,000 Traffic Events Managed	300,000 Lane Blockage Events Managed	948,000 Road Ranger Assists	62,000,000 Messages Posted on Dynamic Message Signs
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Innovative Technology Improves Incident Detection and Clearance

Intelligent Transportation Systems Deployed in South Florida since 2004

Closed Circuit Television Cameras	from 69 to 503	Dynamic Message Signs	from 22 to 195	Roadway Detectors	from 205 to 544
Ramp Signals	from 0 to 41	Wrong-Way Vehicle Detection Systems	from 0 to 14	Traffic Signal Operations in Monroe County	from 0 to 49

Major Projects

First in Florida Projects

District Six launched the first managed lanes project in Florida, **95 Express**. Its success led to the expansion of the first regional managed lanes network in south Florida including **75 Express** and **Palmetto Express**. It also launched the **state's first ramp signaling project**.

Active Arterial Management

The District assumed operations and maintenance of the **Monroe County Traffic Signal System** along State Road 5/ US 1, from **Key Largo to Key West**.

Connected Vehicle Projects

District Six launched its **first connected vehicle project in Monroe County, Keys COAST**, that allows roadway infrastructure and vehicles to communicate using innovative technology for an additional layer of traveler information and safety.



20TH
ANNIVERSARY OF
THE DISTRICT SIX
TRANSPORTATION
MANAGEMENT
CENTER



FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT SIX

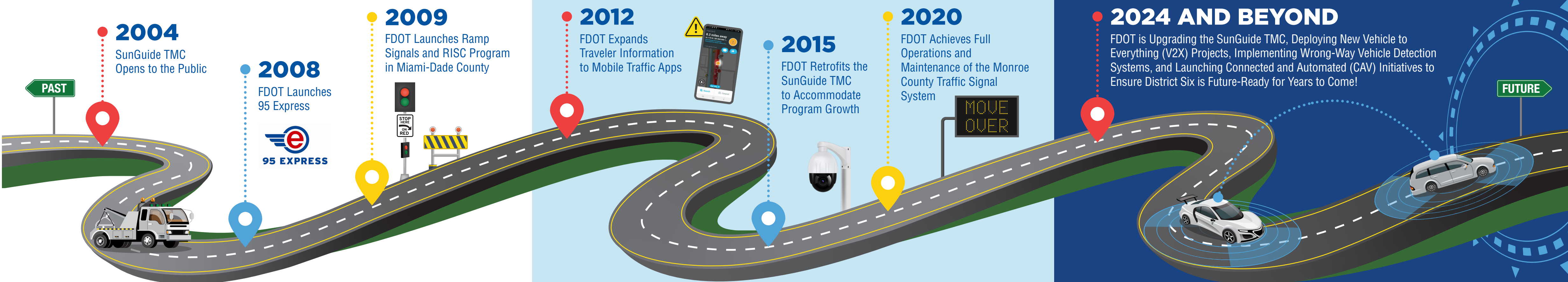
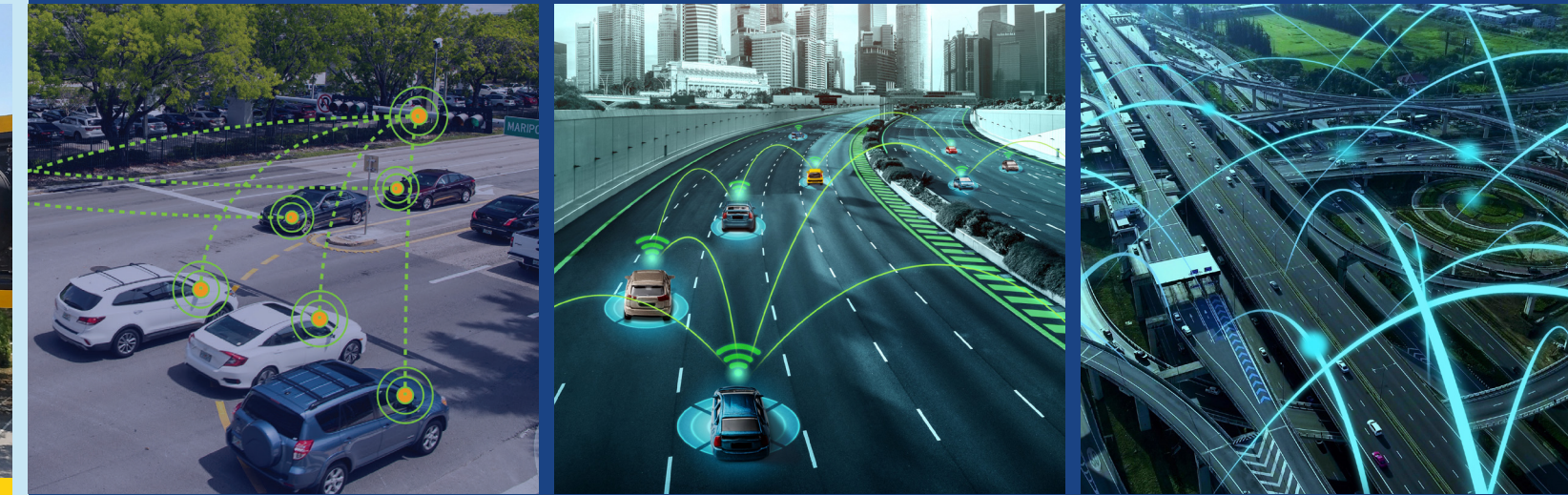
HOW IT STARTED ▶



PAVING THE WAY ▶



FUTURE READY ▶

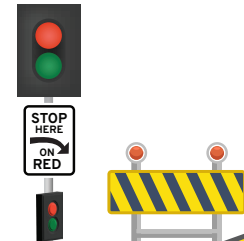


2004
SunGuide TMC
Opens to the Public

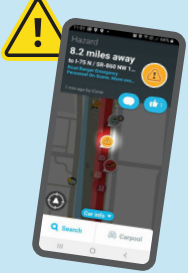
2008
FDOT Launches
95 Express



2009
FDOT Launches Ramp
Signals and RISC Program
in Miami-Dade County



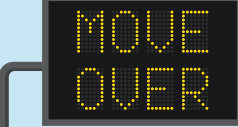
2012
FDOT Expands
Traveler Information
to Mobile Traffic Apps



2015
FDOT Retrofits the
SunGuide TMC
to Accommodate
Program Growth



2020
FDOT Achieves Full
Operations and
Maintenance of the Monroe
County Traffic Signal
System



2024 AND BEYOND
FDOT is Upgrading the SunGuide TMC, Deploying New Vehicle to Everything (V2X) Projects, Implementing Wrong-Way Vehicle Detection Systems, and Launching Connected and Automated (CAV) Initiatives to Ensure District Six is Future-Ready for Years to Come!

FDOT District Six opened the SunGuide TMC in 2004. The state-of-the-art facility serves as the regional hub that manages traffic operations in real-time. The facility features a large video wall, 18 operator workstations and also houses Florida Highway Patrol (FHP) Troop E, the Greater Miami Expressway (GMX) Agency, and City of Miami Beach to provide a regional approach to traffic management. The District continued expanding the TSM&O Program and implemented several

innovative projects to improve roadway safety and mobility. It launched 95 Express in 2008 to mitigate congestion on Interstate 95. The project introduced variable tolling, bus-rapid transit, technology, transportation demand management, and ramp signaling to improve the safety and people-moving capacity of the highway. In 2009, the District introduced the Rapid Incident Scene Clearance (RISC) Program to incentivize quick clearance of large-scale events.

Traveler Information empowers drivers to make informed trip planning decisions on the roadways. FDOT expanded its suite of traveler information services in 2012 by partnering with the mobile application WAZE, to expand its dissemination efforts and reach more drivers through the widely used app. 2015 marked another milestone for District Six. It was the year FDOT retrofitted the SunGuide TMC to support the expansion of its arterial operations as well as the regional express lanes

network. It converted the control room from eight linear workstations to 18 modular workstations, six service desks, and a larger video wall to accommodate the program's growth. In 2020, the District assumed the operations and maintenance of the signal system in Monroe County that includes traffic signals, school zone beacons, pedestrian crosswalk flashers, and other traffic control devices.

The SunGuide TMC has been at the forefront of innovative traffic management strategies for the past 20 years. It has combined cutting edge technology with real-time traffic management services to keep our roadways moving. The TSM&O Program continues to build the SunGuide TMC by integrating new strategies that have worked to meet the growing needs of the community. The District has implemented several vehicle-to-everything (V2X) projects that integrate advanced communication systems to enable the exchange of information

between vehicles and the roadway infrastructure. It recently launched a bridge opening notification system (BNS) on several key bridges, warning gates on 95 Express, wrong-way vehicle detection system (WWVDS) along highway exit ramps, traveler information systems on incident management vehicles, and other projects. The integration of these strategies and services demonstrates FDOT's commitment to providing south Florida with the transportation solutions that address both current and future demands.