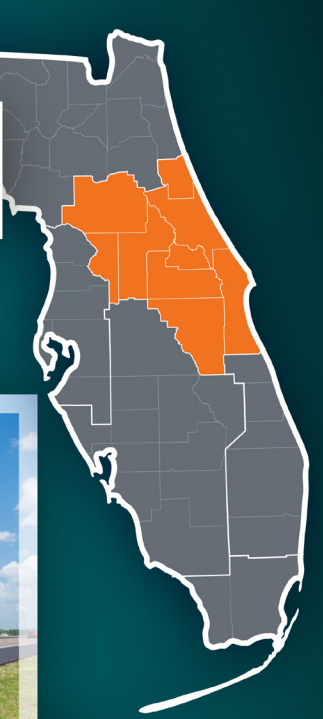




District 5



Integrated Corridor Management (ICM) Quarterly Newsletter, Q3-2023

Road Ranger Assists



Road Rangers assisted on

21,848

events, which is on par with the quarterly average of 22,238 events

Open Roads Time



The Open Roads Time of

46 minutes

is under the Florida Department of Transportation's goal of 60 minutes.

RISC Events



18 out of **20**

Rapid Incident Scene Clearance Events met their goal of 90-minute clearance times

Monetary Value of Arterial Operations



ICM Corridor Managers added a value of

\$493,902

this quarter to road users based on estimates of delay savings

Secondary Crash Savings



Total savings due to reduction of secondary crashes less than 60 minutes goal:

\$80,604,224

Freeway Travel Time Reliability



The average freeway travel time index is

1.10

which is on par with the average*

* See "Holding Steady" charts on page 3 for more information

Arterial Travel Time Reliability



The average arterial travel time index is

1.33

which is on par with the average*

* See "Holding Steady" charts on page 3 for more information

ITS Field Equipment



ITS Field Equipment uptime availability was

95%

Number of Diversions



ICM Corridor Managers implemented

207 diversion routes

which is higher than the average of 168 per quarter

ICM Managed Events



The ICM Team managed

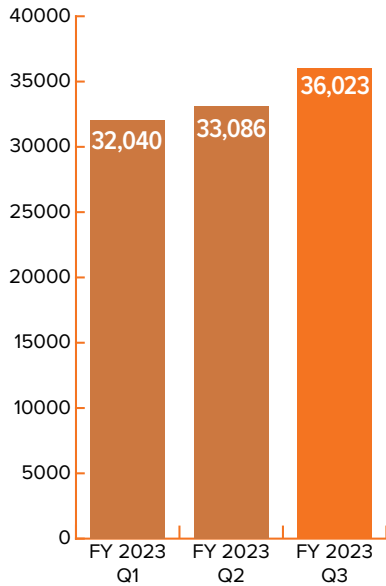
36,023 events

(including 4,527 events with lane blockages)

Trends

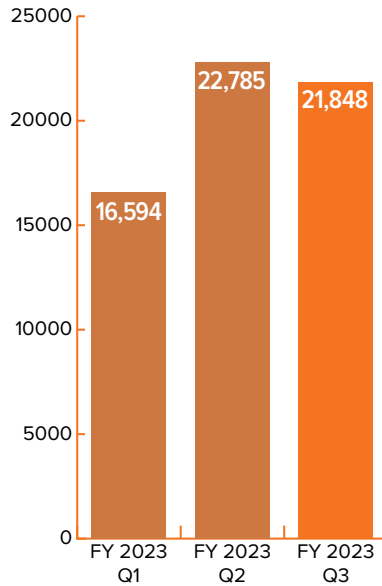
As the Central Florida region grows, ICM continues to play a vital role in improving safety and mobility in District Five.

Total Systemwide Events



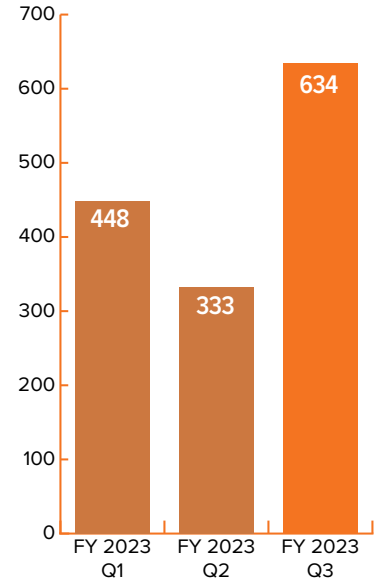
The number of systemwide events is rising. ICM operators worked a total of 36,023 events in FY 2023 Q3, up from the previous quarter.

Road Ranger Assists



Road Rangers provided assistance on 21,848 events in FY 2023 Q3, slightly fewer than the previous quarter.

Secondary Crashes Prevented

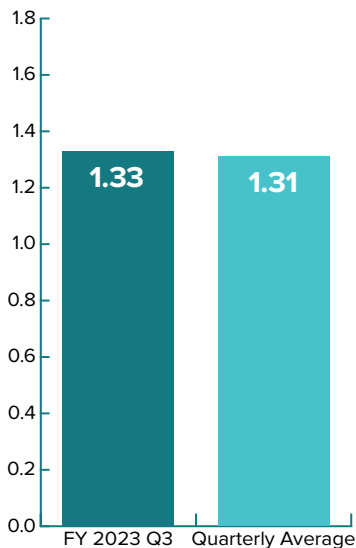


Chances of secondary crashes increase 1% every minute that a roadway remains closed from the initial crash (Shah et al., 2022). This estimate is based on exceeding the Department's Open Roads goal of 60 minutes.

Holding Steady

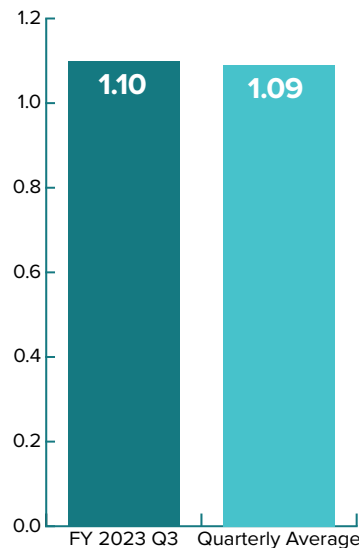
Despite continued demands on the transportation system, ICM efforts succeeded in maintaining some key performance measures.

Arterial Travel Time Index



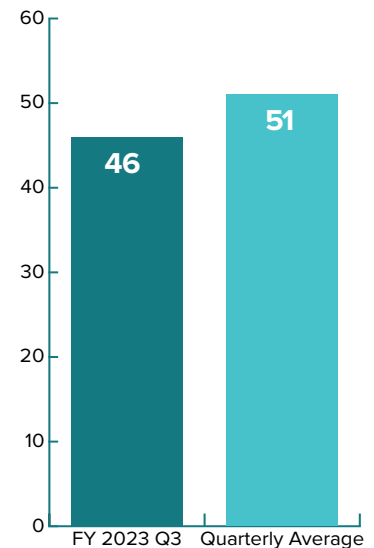
The Travel Time Index represents the average additional time required for a trip during peak congestion compared to the same trip in a hypothetical no-traffic condition. A higher travel time index means more time, on average, required to make a trip.

Freeway Travel Time Index



The Travel Time Index represents the average additional time required for a trip during peak congestion compared to the same trip in a hypothetical no-traffic condition. A higher travel time index means more time, on average, required to make a trip.

Average Roadway Clearance Time (Minutes)



The average roadway clearance time in FY 2023 Q3 remained under the Department's goal of 60 minutes.

What Is ICM?

Integrated Corridor Management (ICM) is a collection of operational strategies and advanced technologies that allow transportation subsystems to operate in a coordinated and integrated manner. The goal is to operate the transportation network in a balanced way that utilizes both the freeways and arterials to improve the overall safety, efficiency, and reliability of the network.

The Value of ICM

Incident Clearance

When an incident blocks one or more travel lanes, the goal of FDOT District Five is to clear the incident in 60 minutes or less. In FY 2023 Q3, District Five achieved an average clearance time of **46 minutes**. Because the chance of a secondary crash increases every minute, that **14-minute gain** translates to fewer secondary crashes, over **\$80 million saved***, and reduced congestion.

* Total savings due to reduction of secondary crashes less than 60 minutes goal= \$127,136*634=\$80,604,224. For more information on this calculation, please see the FDOT District Five ICM Quarterly Report for Quarter 3 of 2023 located on cflsmartroads.com.



Road Ranger Assistance

The Road Ranger Service Patrol provides traffic incident management response services and limited no-cost highway assistance to motorists to improve highway safety for emergency responders and the motoring public. In District Five for FY 2023 Q3, Road Rangers **assisted on 21,848 events**. Districtwide, the average Road Ranger response time was just over **16 minutes**.



One Year Later: Drivers Continue to Experience I-4 Congestion-Free via Express Lanes

In its first year of operation, I-4 Express, the Florida Department of Transportation's (FDOT) managed lanes approach along Interstate 4 (I-4) in Orange and Seminole counties, has successfully reduced traffic incidents, decreased travel time, and provided a premium driving experience for Central Florida residents and visitors alike.

The express lanes, situated along a 21-mile corridor in the center of I-4 from west of Kirkman Road (State Road (S.R.) 435) in Orange County to just east of S.R. 434 in Seminole County, have given motorists a reliable travel option alternative on I-4 via a new system of non-stop electronic tolling.

Central Florida residents and visitors who have spent the past year using I-4 Express have experienced many benefits, including more reliable travel times. Even drivers in the general use lanes on I-4 are seeing benefits from I-4 Express, with the average motorist saving more than 3 minutes on their trip compared to data gathered prior to the opening of the express lanes. Reliability, or how consistently the express lanes keep traffic moving, is a major goal of I-4 Express.

"The express lanes are a popular choice for our residents and visitors, increasing safety and mobility, easing congestion, and providing a reliable and



FDOT recently recognized the first anniversary of I-4 Express on February 26, 2023.

easy-to-use travel option to improve connectivity through Central Florida,” said FDOT District Five Secretary John E. Tyler, P.E. “With I-4 Express, you can travel with confidence, knowing you will be able to get where you need to go.”

In March 2023, nearly 1 in 5 motorists on I-4 during morning peak hours made I-4 Express a part of their commute. During evening peak hours, 1 in 4 motorists used I-4 Express. More than 53,000 trips are taken on I-4 Express daily, and 60 new motorists choose the express lanes each week. The use of I-4 Express has continued to grow since the lanes opened on February 26, 2022, with daily trips in March 2023 up by 89% from March 2022.

An additional benefit of the express lanes has been an increase in the average speed of travel along I-4. During morning peak hours in March, drivers on I-4 Express were able to travel 5.7 mph faster on average by using the managed lanes. During evening peak hours, the benefit was even greater, with an average speed differential of 7.8 mph.

Another performance measure is reliability, or how consistently I-4 Express keeps traffic moving. In March, I-4 Express provided a reliable travel option for motorists, operating with travel speeds of 45 mph or greater more than 99% of the time during peak hours.

FDOT commemorated the managed lanes’ first year of success by offering a day of free tolls on

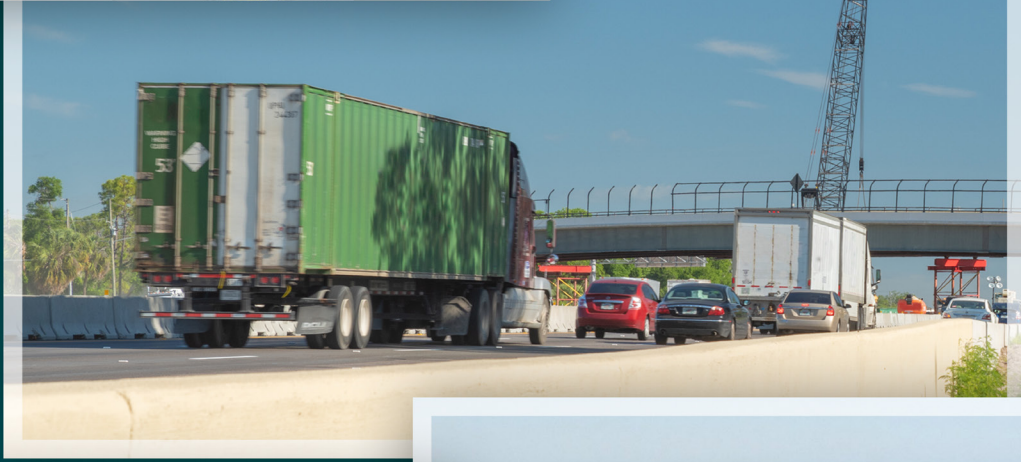
Sunday, February 26. New and returning motorists were encouraged to “Express Yourself” by trying I-4 Express with no transponder needed.

As of March 2023, the managed lanes continue to operate with an introductory toll rate as low as 50 cents per trip. To travel the entire length of I-4 Express it costs \$3.50 eastbound and \$3.00 westbound. I-4 Express was built for dynamic tolling, and as traffic volume on I-4 Express continues to increase, the dynamic tolling method may be rolled out as early as summer 2023.

When congestion on I-4 Express reduces travel speeds, the dynamic toll price will increase to manage the number of drivers entering the lanes. Prices will be updated via existing toll signage every 15 minutes to reflect real-time traffic data collected electronically by FDOT’s toll gantries.

Use of I-4 Express is eligible for Florida’s Toll Relief Program, which provides credits to frequent commuters on toll roads across the state. The program automatically gives Floridians with 35 or more toll transactions per month a 50% credit to their account. This program, proposed by Governor Ron DeSantis and enacted by the Florida Legislature, will run through December 31, 2023.

Drivers traveling in the express lanes must have a SunPass or other Florida-accepted transponder fixed to their vehicle, and only two-axle vehicles are allowed.



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