



# WRONG WAY DRIVING DETECTION AND PREVENTION SYSTEM

As part of our mission to ensure the safety of our customers, the Central Florida Expressway Authority (CFX) invested in the development of a Wrong-Way Driving (WWD) Detection and Prevention Program. CFX partnered with the University of Central Florida to develop, deploy and study an integrated countermeasure technology; all effectively accomplished through the support from the USDOT Federal Highway Administration, Florida Highway Patrol and FDOT. To date, CFX has invested over \$10M in the development, deployment and study of the system.

The system is equipped with either radar, laser, LiDAR, or thermal detection technology that is installed on expressway entrance ramps. Once a vehicle is detected driving the wrong way, two sets of flashing LED lights are triggered to alert the driver before reaching the expressway, giving them the chance and room to turnaround. The system also triggers a series of cameras to take photos of the vehicle which are transmitted to the Regional Traffic Management Center. Operators there notify the Florida Highway Patrol and activate alerts on CFX's overhead dynamic message signs to warn other drivers.

## QUICK FACTS

From the period of February 2015 through December 2022, our system has detected a total of 1,451 wrong way movements with a result of 1,275 documented turn arounds (87%)

Currently installed at 55 ramp locations throughout the CFX expressway system

We are detecting WWD at 10 Mainline locations on the CFX system



## AWARDS

- 2015 Transportation Research Board (TRB) Best Paper Award
  - 2016 IBTTA Toll Excellence Award
  - 2018 TRB Best Paper Award
  - 2019 TRB Best Paper Award
  - 2022 Best TRB Freeway Operations Paper Award
- ◀ Accepting TRB Best Freeway Operations Paper Award in 2015



## PARTNERS

