

Wrong Way Driving Systems

Wrong Way Driving (WWD) is when a vehicle enters a highway or roadway in the direction opposing the traffic flow. Although less frequent than other crash types, WWD is much more likely to result in fatalities or severe injuries.¹

WWD Detection Technologies



Self-Correct/Turn Around Rate

Based on studies from Arizona and Florida, with the use of WWD prevention systems, 88 to 100% of WWD drivers

Example WWD Warning Technologies

- LED-Enhanced Blinking Wrong Way signs
- In-Pavement Warning Light
- Connected and Automated Vehicle Messages



Benefits

Click on each example at right to learn more.



Phoenix, AZ WWD thermal detection system addressed 33 nearincidents in the first six months of operation.

Tampa, FL



EXAS

WWD CV application correctly warned 14 drivers entering the wrong way of the reversible express lanes and identified 74% of the potentially true conflicts over 19 months.

San Antonio, TX

WWD radar detection system and LED warning lights reduced WWD incidents up to 30% according to analysis after a 14-month pilot.



Costs

Click on each example at right to learn more.

\$3.7M

- Phoenix, AZ
- I-17, 15 miles
- 90 thermal cameras with flashing LED warning signs

\$18,000 to \$45,000/ramp

- Nashville, TN
- Initial deployment cost per ramp
- Radar- and LiDARbased detection

\$377,605

Source: iStock

- San Antonio, TX
- US-281, 15 miles
- 28 exit ramps and 4 mainline locations
- Radar detectors with illuminated warning signs

1. National Transportation Safety Board, <u>Highway Special Investigation Report Wrong-Way Driving</u>, 2012. 2. Arizona DOT, Interstate 17 Wrong Way Vehicle Detection Pilot Program, 2020. 3. Florida DOT, Wrong-way driving pilot prevents crashes, 2015.

Last modified on February 24, 2022