



Automate Incident Management

Integrated Safety at the Ramp and Beyond

Powered by:



360ns
network solutions

“There is an industry-wide need for better management of wrong way driver systems.”

Agencies desire systems that are.....

Scalable

- Not just at the Ramp but beyond and throughout the Roadway Network

Real-Time

- Integrated Alerts via LED's, Email, SMS, Text, and ATMS

Open Source/Secure

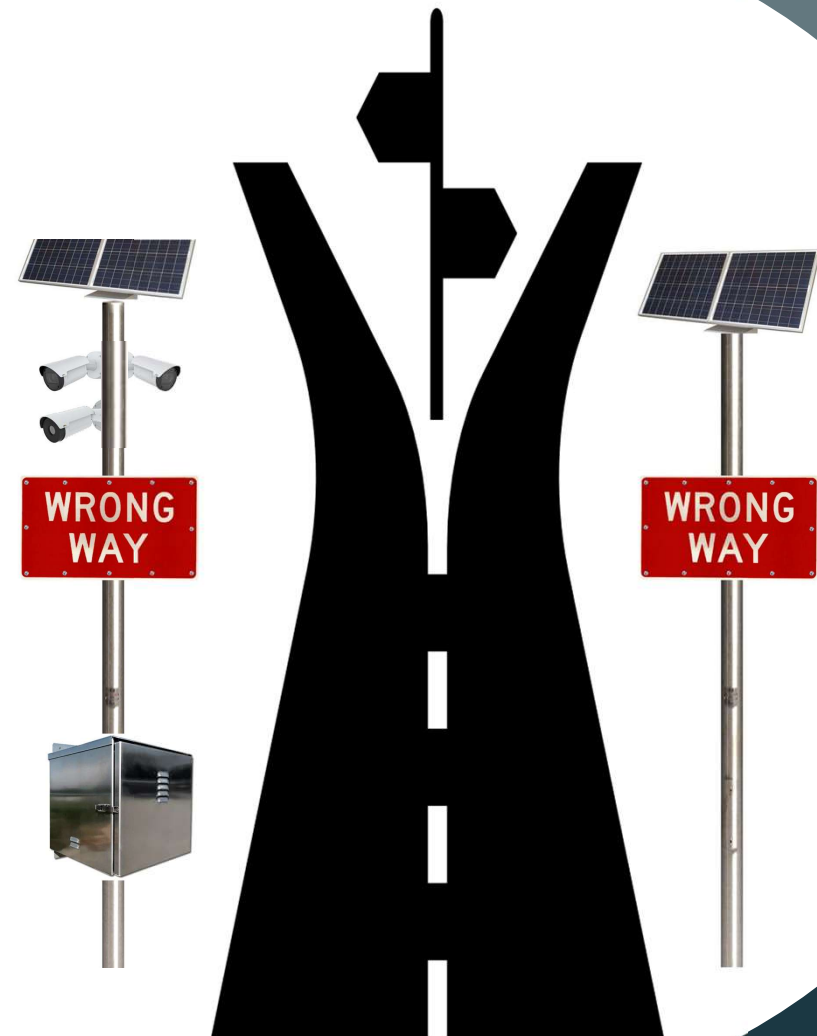
- Eliminate “vendor lock” using hardware sensor agnostic analytics

Flexible

- Utilize new or existing highway infrastructure for reliable detection of Wrong Way, Stopped Vehicle, Pedestrians, Debris, Slow Traffic, Congestion, and Low Visibility

Data Driven

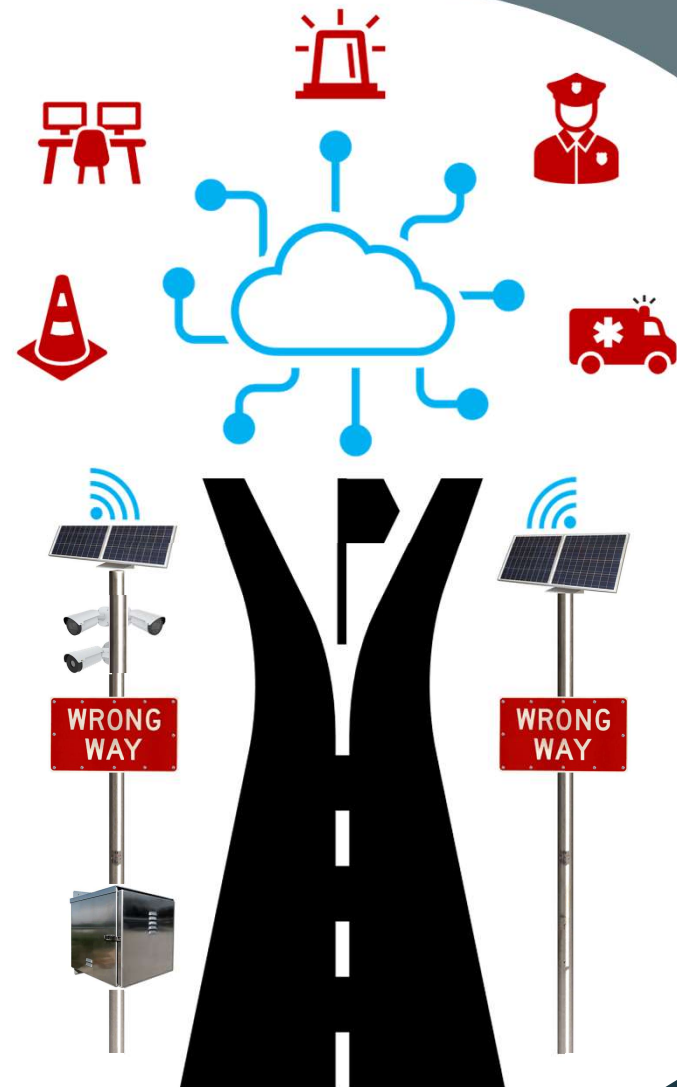
- Dual purposed to collect and measure highly accurate traffic data per lane / per direction



Let's envision a better Wrong Way Driving Detection solution.

Scalable System Options Driven by Innovation

- **Utilize New or Existing Cameras** – Extend your detection by turning your existing highway cameras into intelligent sensors through a hardened roadway-tested suite of Incident Detection analytics.
- **Automate Notifications** – Video snapshots and alerts sent automatically to Traffic Operations and any designated stakeholder via SMS, Text, Email, or Direct API integrations
- **Cloud Connect** – Through our partnerships with leading cloud providers Google, Amazon Web, and Azure, manage all alerts, data aggregation, stakeholders, and incident management tasks in the Cloud



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Scalable System Options Driven by Innovation

- **Utilize Existing Cameras** - Video minimum 240p res, 15fps, 25' mounting height, 200' detection area
- (optional) **HD Optical Camera** with IR for Vehicle/Ped detection, image alert capture, and video clip processing
- (optional) **Thermal Imaging Sensor** for enhanced Machine Vision, Vehicle/Ped detection, image alert capture, and thermal clip processing
- (optional) **Edge Processing Industrial Compute PC** allows for triggering LED signage and Federation to the Cloud
- (optional) **Remote Solar Power Systems** for off-grid operations



- 1080p HD Optical with Optimized IR Illumination
- Wide Dynamic Range, Electronic Image Stabilization
- NEMA TS-2 -40 ~ 70°C Operating Temperature Range



- High Performance Thermal Imaging Sensor 640x480
- Accurately detect, verify, and respond in challenging light conditions
- Electronic Image Stabilization.
- NEMA TS-2 -40 ~ 70°C Operating Temperature Range



- Intel Core i7 or Xeon processing
- CAN Bus, DIO, and customizable I/O via ModBay™
- -40 ~ 70°C Operating Temperature Range with 35W CPU

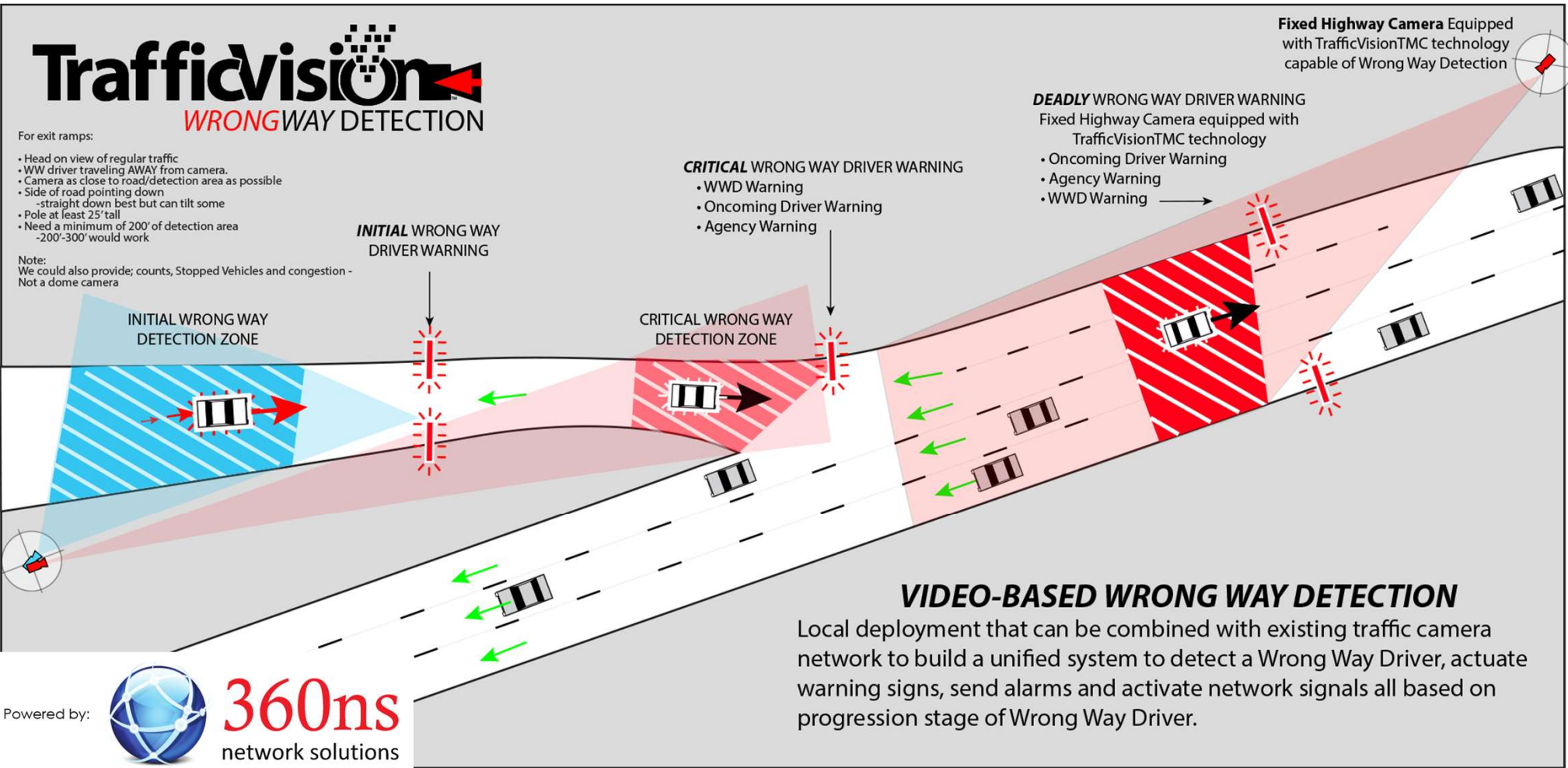
TrafficVision

WRONGWAY DETECTION

For exit ramps:

- Head on view of regular traffic
- WW driver traveling AWAY from camera.
- Camera as close to road/detection area as possible
- Side of road pointing down
 - straight down best but can tilt some
- Pole at least 25' tall
- Need a minimum of 200' of detection area
 - 200'-300' would work

Note:
We could also provide; counts, Stopped Vehicles and congestion -
Not a dome camera



Fixed Highway Camera Equipped with TrafficVisionTMC technology capable of Wrong Way Detection

DEADLY WRONG WAY DRIVER WARNING
Fixed Highway Camera equipped with TrafficVisionTMC technology

- Oncoming Driver Warning
- Agency Warning
- WWD Warning

CRITICAL WRONG WAY DRIVER WARNING

- WWD Warning
- Oncoming Driver Warning
- Agency Warning

INITIAL WRONG WAY DRIVER WARNING

INITIAL WRONG WAY DETECTION ZONE

CRITICAL WRONG WAY DETECTION ZONE

VIDEO-BASED WRONG WAY DETECTION

Local deployment that can be combined with existing traffic camera network to build a unified system to detect a Wrong Way Driver, actuate warning signs, send alarms and activate network signals all based on progression stage of Wrong Way Driver.

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Let's envision a better Wrong Way Driving Detection Solution.

Scalable System Options Driven by Innovation

1. Choose your Coverage Area

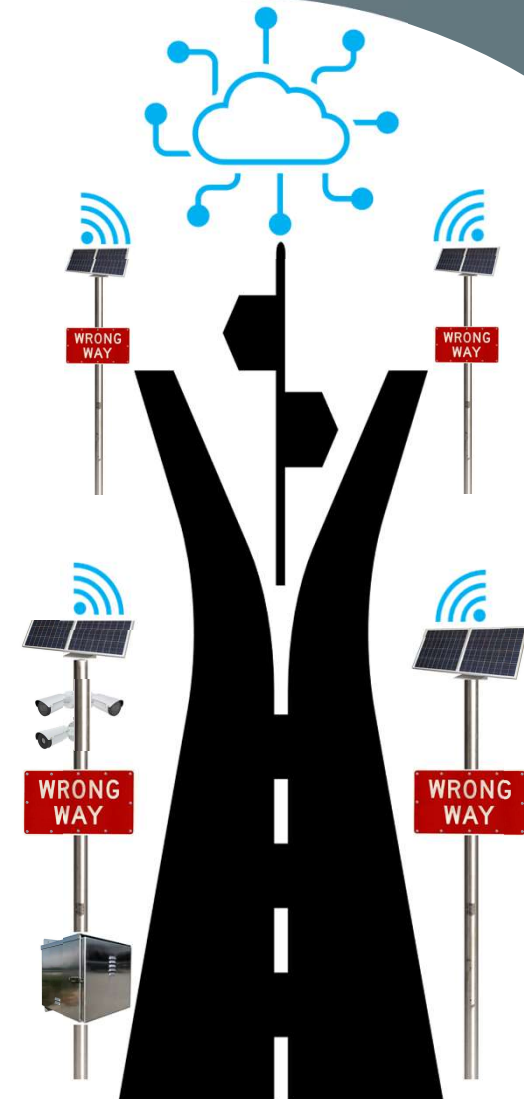
- Our 360ns Team of technical professionals will work closely with your agency to define and scope your project requirements.

2. Choose your Hardware

- **WWDS-1** - AC or Solar Power, (2) HD IR Cameras (forward and rear facing), (1) LED WW Sign, TrafficVision TMC, Edge Processor with Cloud Connect, Automatic Notifications
- **WWDS-2** - AC or Solar Power, (2) HD IR Cameras (forward and rear facing), (2) LED WW Sign, TrafficVision TMC, Edge Processor with Cloud Connect, Automatic Notifications
- **WWDS-4** - AC or Solar Power, (2) HD IR Cameras (forward and rear facing), (4) LED WW Sign, TrafficVision TMC, Edge Processor with Cloud Connect, Automatic Notifications
- **WWDS-0** - No Hardware required. Uses existing infrastructure (cameras and signage) to activate Automatic Alerts and trigger roadway messages. Includes TrafficVision TMC, Cloud Connect, and Automatic Notifications

3. Choose your Support Plan

- **1-Year** Service Support with Cloud Connect and Automatic Incident Management
- **2-Year** Service Support with Cloud Connect and Automatic Incident Management
- **3-Year** Service Support with Cloud Connect and Automatic Incident Management



Trusted Solution. Guaranteed Performance.

Providing hardened analytics for over 10 years.

360ns Active Public Agency Wrong Way & Incident Management Deployments

- Florida DOT, District-1
- Florida Turnpike Authority
- Georgia DOT, District-7
- Georgia DOT, District-3
- GA State Road and Toll Authority
- New Mexico DOT
- Peachtree Corners, City of



Smarter Traffic. Innovative Leadership.

www.360ns.net (855) 463-6067
1800 Sandy Plains Industrial Pkwy
STE 304 Marietta, GA 30066

