



#EndTheStreakTX



Technology and Safety- TxDOT Fort Worth

S.A.M.E. Infrastructure Forum



1 Crashes & System Safety

2 Wrong Way Driving

3 HELP Alert

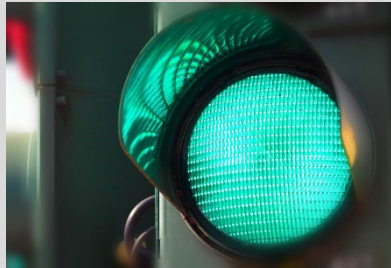
4 Elecsys System for Illumination

5 Q&A

HELP #EndTheStreakTX

End the streak of daily deaths on Texas roadways.

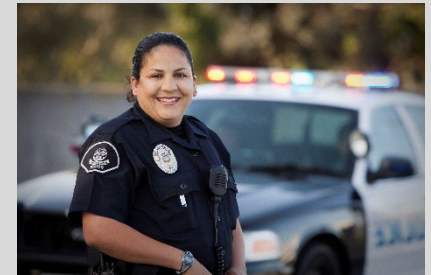
Engineering



Education



Enforcement



System Safety Program

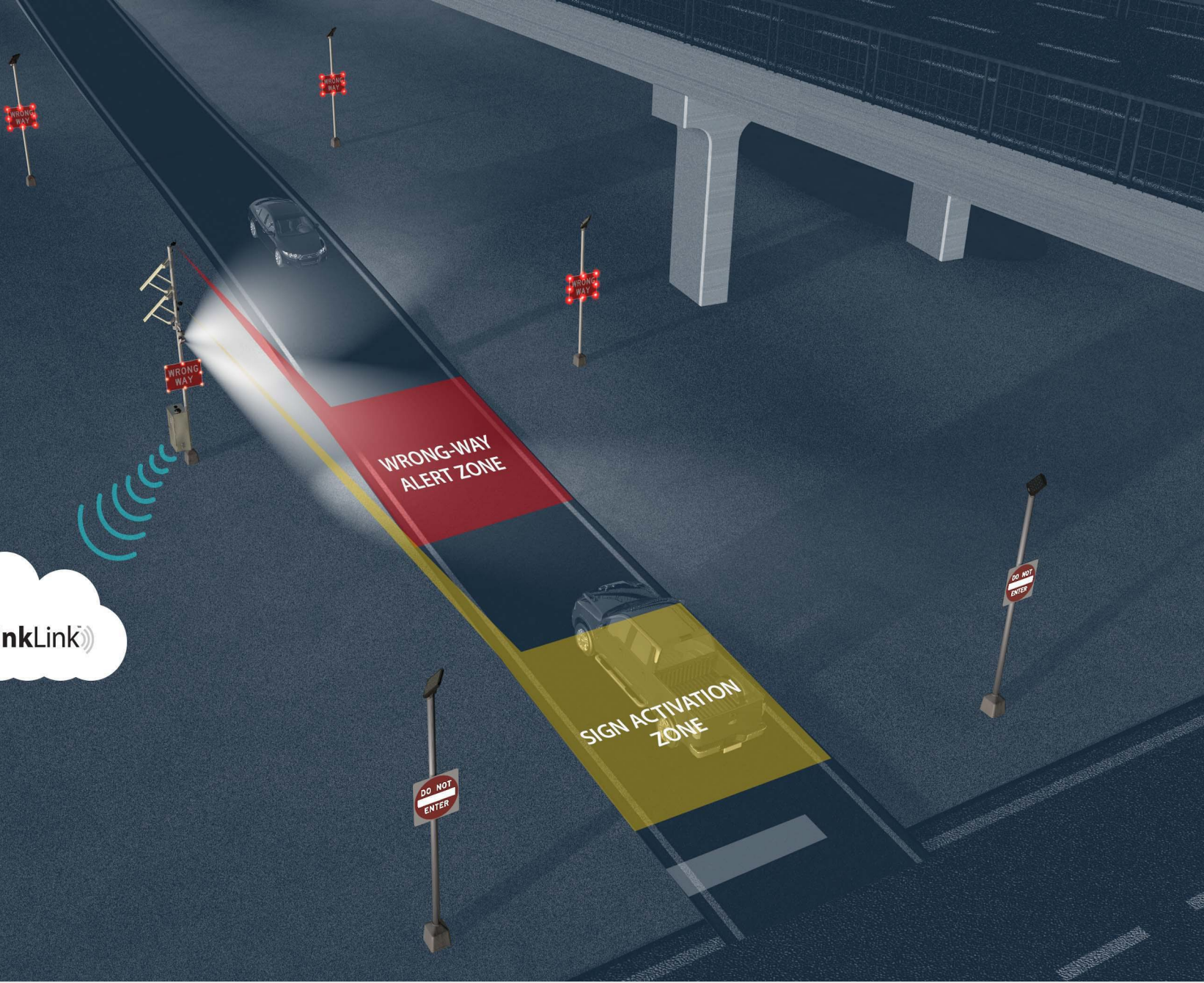


How Wrong-Way Driving Alert Systems Work

i4Beyond.com/wrongway



- 1 Detects vehicles:** Signs located on exit ramps use radar to detect vehicles traveling the wrong way.
- 2 Triggers lights:** Flashing lights are activated to notify the driver if he/she is traveling in the wrong direction.



Wrong Way Driving Alerts



Wrong-Way Alert Detected - IH30.EX.Brentwood Stair Rd.EB - Message (HTML)

File Message Help Acrobat **Attachments** Tell me what you want to do

Remove Attachment Save As Save All Attachments Upload Upload All Attachments Select All Copy Show Message

Wrong-Way Alert Detected - IH30.EX.Brentwood Stair Rd.EB

TRF_FTW_Lonestar@txdot.gov

To: Alex Bell; Carlos Molina; y-rathod@tti.tamu.edu; shogden@tapconet.com; Dustin Patton-C; Michelle McConnell-C; Robert Spilman-C; Ronda Tate; Mikayla Holtor; Joann Swafford-C; Allen Bain Jr; Alyssa Palos-C; Ashley Foster-C; Cara France; Derek Freshour-C; Gloria Bradley-C; Jamie Pierce; Jeremiah Lerma; Joe Myers-C; Joseph Mathis-C; Kristopher Allen; **+6 others**

Sun 5/1/2022 2:58 AM

image_05-01-2022_02-58-07-7522-05-01_02-58-07-75.jpg 20 KB

image_05-01-2022_02-58-08-0722-05-01_02-58-08-07.jpg 20 KB

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image_05-01-2022_02-58-10-4222-05-01_02-58-10-42.jpg ..

A Wrong-Way Alert has been detected for detector "IH30.EX.Brentwood Stair Rd.EB" on 5/1/2022 2:58:13 AM. The vehicle was detected on IH30 Eastbound (IH30 Eastbound at Brentwood Stair exit).

Sent from Lonestar user DPA Alert



IH30 @ Lamar.WB 2022-08-14 06:53:04

Wrong Way Driving Alerts



- TMC member confirms that the WWD has entered highway calls 911
- Another TMC member enters incident into Lonestar and activates all DMS BOARDS
- TMC members would all then activate their Desktop Video Wall and watch WWD untill caught or out of area.



DMS Message Info

Proposed Message

Incident Management Alert:90

WARNING

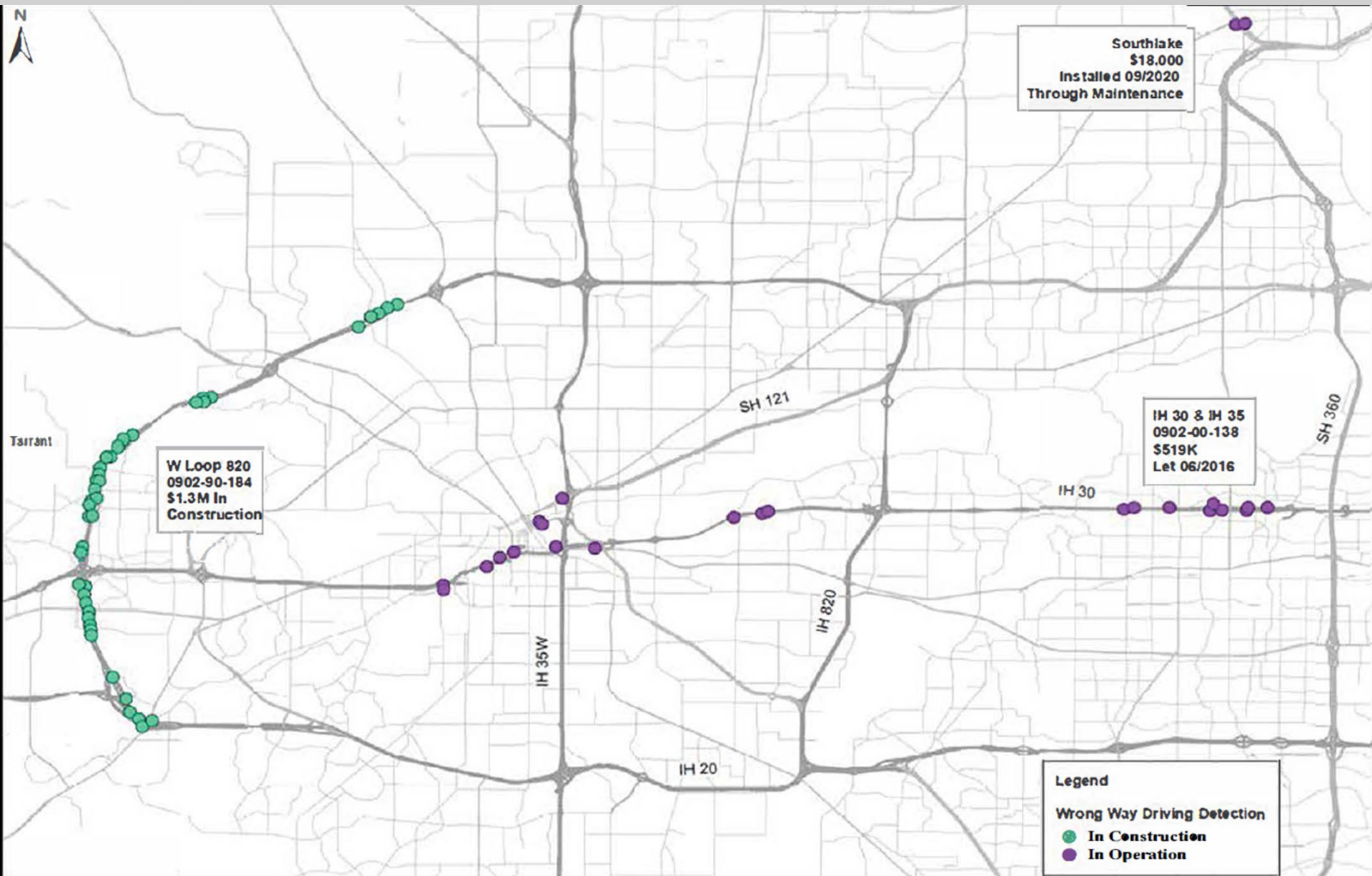
WRONG WAY DRIVER

REPORTED

☒ Beacons

Drag DMS here to add to group

Wrong Way Driving Detection



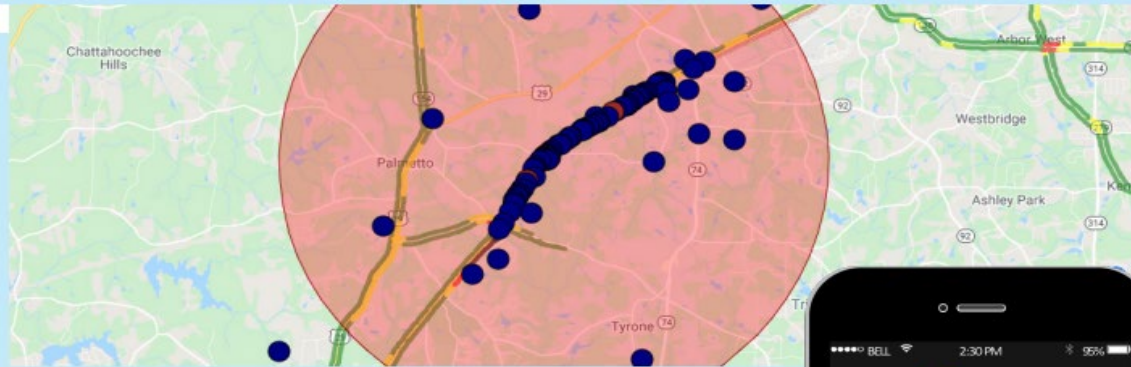
Wrong Way Driving Safety Benefits



YEAR	WWD ALERT	Self-Correct	911 Notified	PD Caught
2017	72	69	3	0
2018	83	76	7	0
2019	77	70	7	1
2020*	19	17	2	0
2021	160	152	8	3
2022-(Jan-Dec)	151	144	7	2
TOTAL:	562	528	34 out of 562 entered the highway	6 of those 34 have gotten caught, some of the 28 may have auto corrected on the highway or gotten off before police could locate.

94% Self-Correction Rate

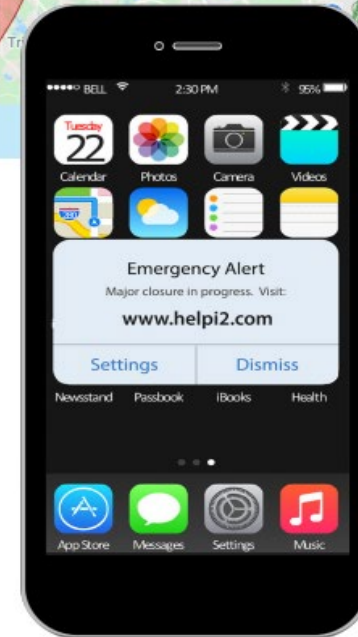




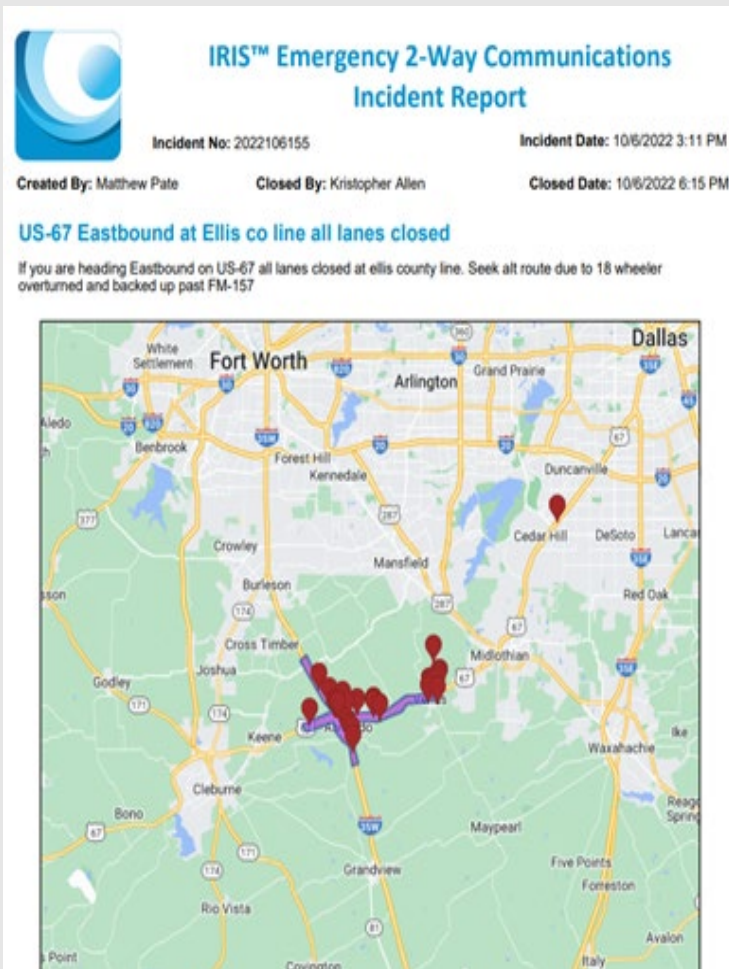
HELP Alerts™

Save Lives With HELP

HELP Alerts is an emergency alerting service for those extreme situations when travelers are stuck on a road for an extended period of time. HELP can reach all travelers in the area - no app needed. No pre-registration needed. No knowledge of your agency website or services needed.



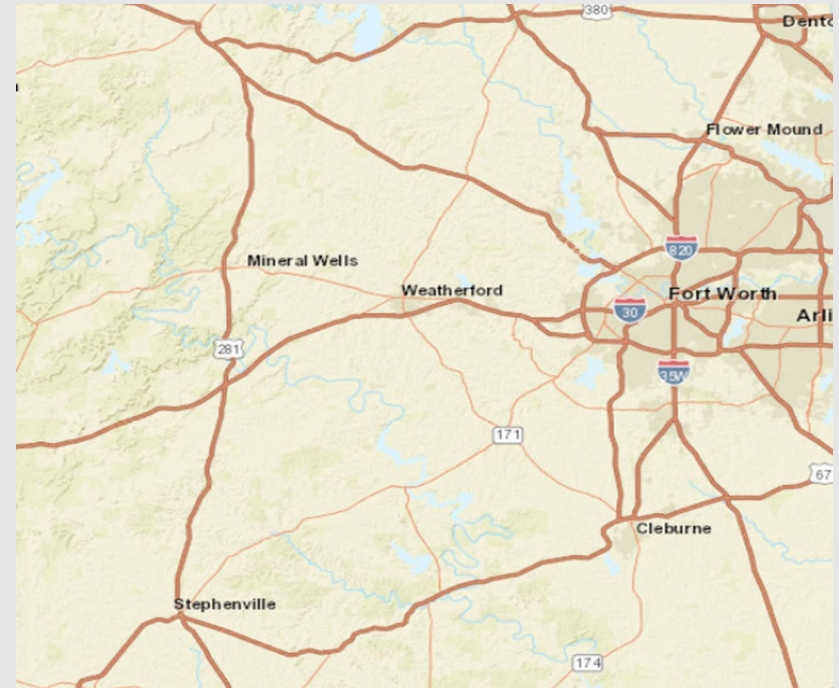
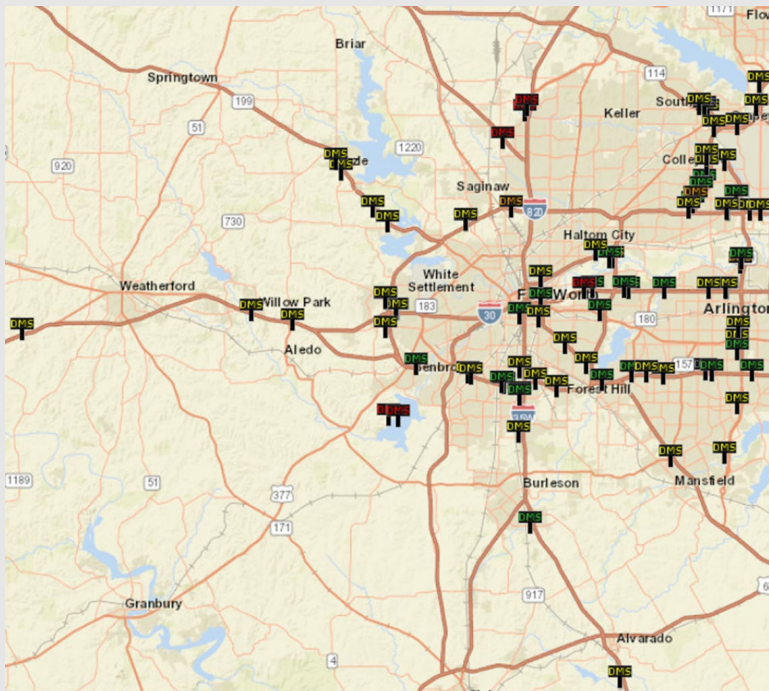
- **HELP Alerts service push a Wireless Emergency Alert (WEA) to travelers in and approaching a major incident area. The WEA message relays instructions for registering for road closure updates.**



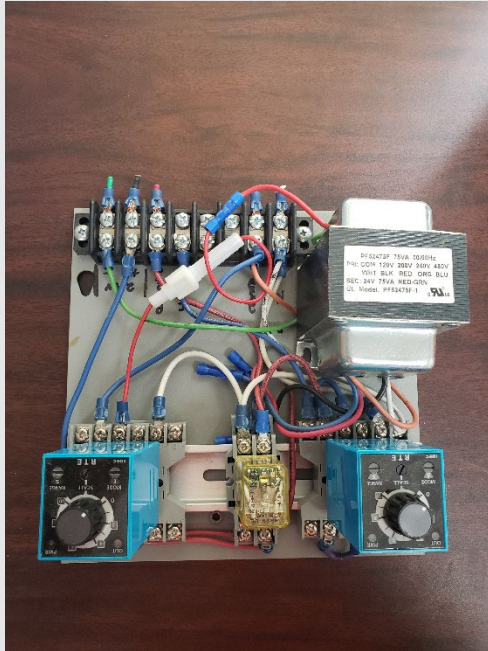
The screenshot shows the IRIS™ Emergency 2-Way Communications Incident Report interface. It includes a blue circular logo on the left. The title is "IRIS™ Emergency 2-Way Communications Incident Report". Below the title, it displays "Incident No: 2022106155" and "Incident Date: 10/6/2022 3:11 PM". Further down, it shows "Created By: Matthew Pate", "Closed By: Kristopher Allen", and "Closed Date: 10/6/2022 6:15 PM". The main heading is "US-67 Eastbound at Ellis co line all lanes closed". Below this, a text block reads: "If you are heading Eastbound on US-67 all lanes closed at ellis county line. Seek alt route due to 18 wheeler overturned and backed up past FM-157". At the bottom is a map of the Fort Worth area, showing major highways and several red location pins indicating the incident area near the intersection of US-67 and the Ellis County line.

- **Full Lane Closures in one or both directions lasting 4 or more hours**
- **Once registered, users can receive updates about the closure as well as send messages to the agency's representatives.**
- **The emergency alert system can also issue one-way alerts to warn drivers of upcoming dangers or extreme conditions.**
- **The alerts operate through the Integrated Public Alert & Warning System (IPAWS), FEMA's national system for local alerting that provides authenticated emergency and life-saving information to the public.**

- Gives drivers more information about situation
- Allows for one-on-one communication
- Increased our coverage area

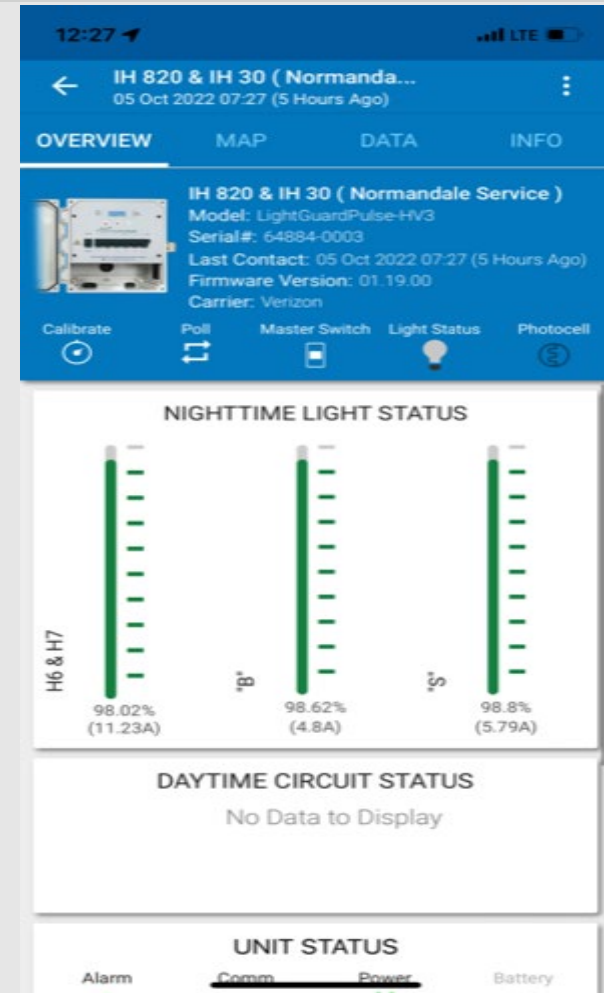
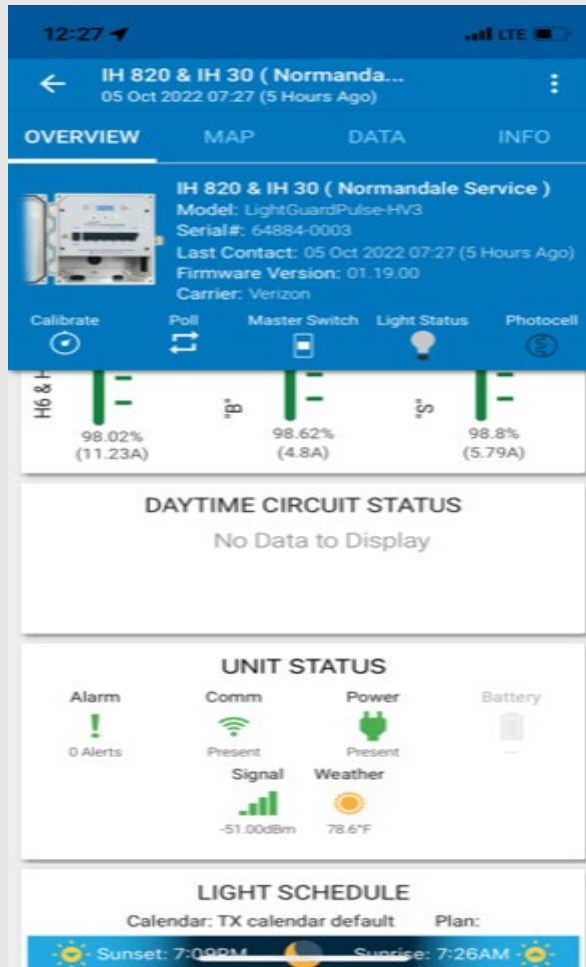






- **Monitors voltage drops in a circuit**
- **Relays the number of LED's out or if the entire circuit is out**
- **TMC can do a camera check to see if contractor is working or if there is attempted theft**





- Communication during testing of circuits
- Health of the system

Public Safety:

Allows us to be more responsive with repairs

Increased uptime for illumination

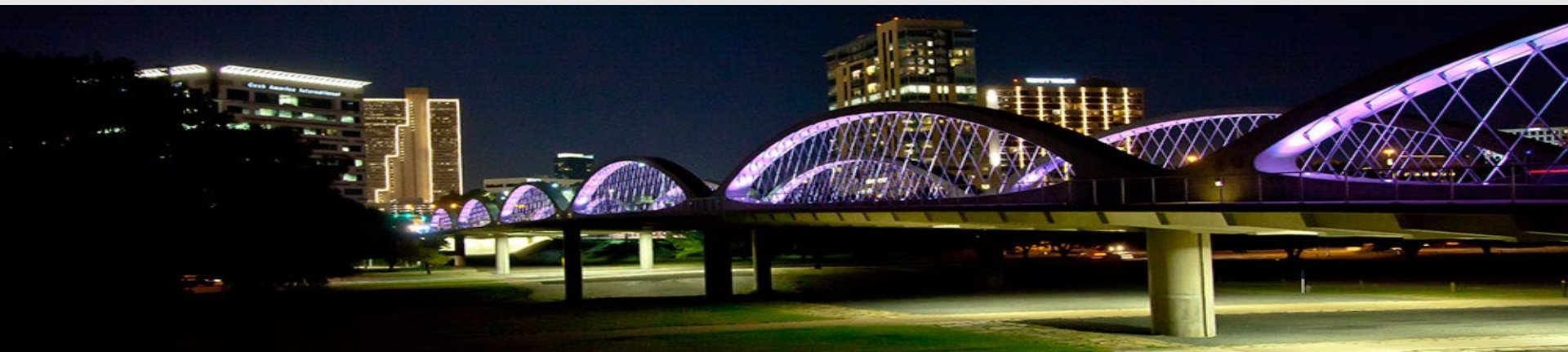
Employee Safety:

Reduces travel time to a location

Remotely turn system on and off with phone saves 2 hours/day when troubleshooting

App has an all-clear feature before turning on/off circuits

Lessens the need for lengthy night time inspections





Questions?