

— THE EASTERN  
TRANSPORTATION  
COALITION

CONNECTING FOR SOLUTIONS



*The Eastern Transportation Coalition  
Travel Information  
Web Roundtable*

*November 19, 2020*



# Housekeeping Information

- **Audio** - Please follow the audio instructions listed at the top of the meeting room
- **Giving Your Update** -
  1. We are going in alphabetical order (with transit related agencies at the end)
  2. You will need to unmute your audio to give your update
  3. We will move your slides for you – just say “next”
  4. Lots to hear today – **please keep your update to 3-4 minutes** (Denise is the time keeper)
- **Questions for other agencies?** Please use the CHAT Box
- Please **mute your phone line or computer audio** when you are not speaking
- **This web meeting is being recorded**
- **Questions** with the audio or web? Please contact Justin



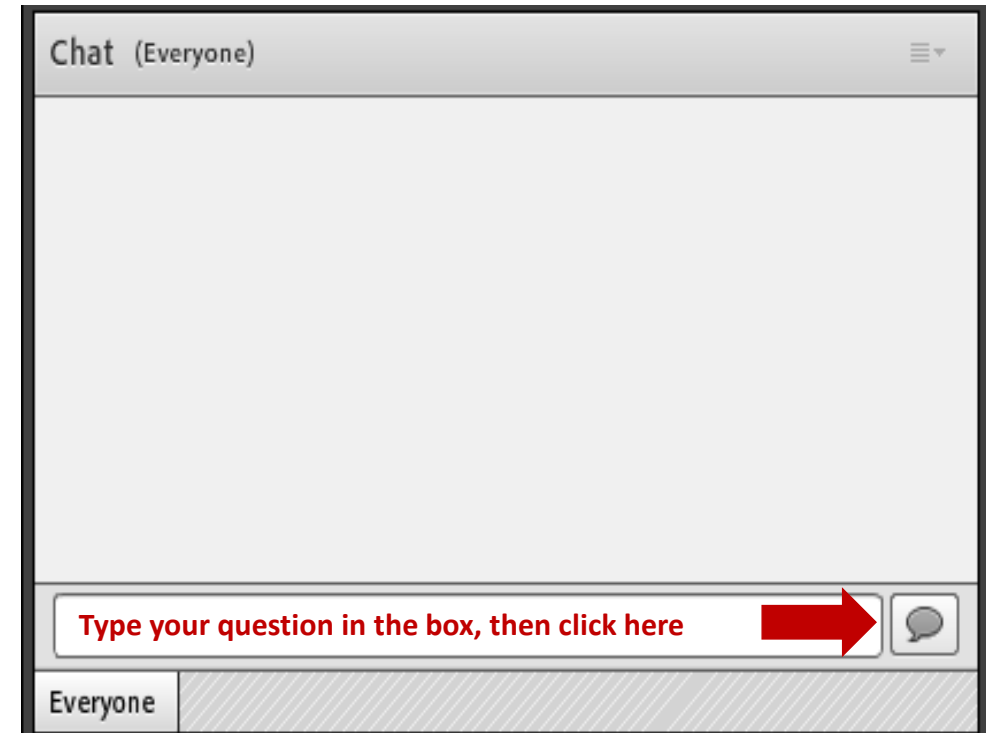
# Make Comments & Ask Questions



*We encourage EVERYONE to share .....*

## USE THE CHAT BOX

- The questions in the chat box will be monitored
  - If time permits, we will have the speakers respond - please direct the question to the speaker (@Jane Doe).
  - Given the time constraints, speakers may respond to questions in the chat box- for example use (@John Smith).



While you are not speaking....  
Please confirm you are MUTED

**Mute your phone line**  
&  
**Mute your computer**

Thank  
You!





# Welcome from the Co-Chairs



**Kelly Wells**  
*State Traveler Information  
Engineer*  
North Carolina DOT



**Mary Ameen**  
*Executive Director*  
NJTPA



# Participating Agencies

## Agencies

Alabama DOT	Massachusetts DOT	Pennsylvania DOT	Tennessee DOT
Connecticut DOT	MTA	Pennsylvania Turnpike Commission	Vermont AOT
Georgia DOT	New Jersey DOT	Port Authority of NY & NJ	Virginia DOT
Maine DOT	New York State DOT	Rhode Island DOT	
Maryland DOT - SHA	North Carolina DOT	South Carolina DOT	



# Alabama DOT






# Alabama TIS

← → ↻ 📍 algotraffic.com

Register Sign In



**ALGO Traffic**

ALGO Traffic provides live traffic camera feeds, updates on Alabama roads, and access to exclusive ALDOT information.

**SITE CONTENT**

- 📍 Map
- 🚗 Traffic Reports
- 🕒 Travel Times
- 📷 Cameras
- 🚨 Amber Alerts
- ✉ Feedback

**RESOURCES**

- 📄 Documents
- 👤 External Links
- 🐦 Twitter

There are no amber alerts at this time

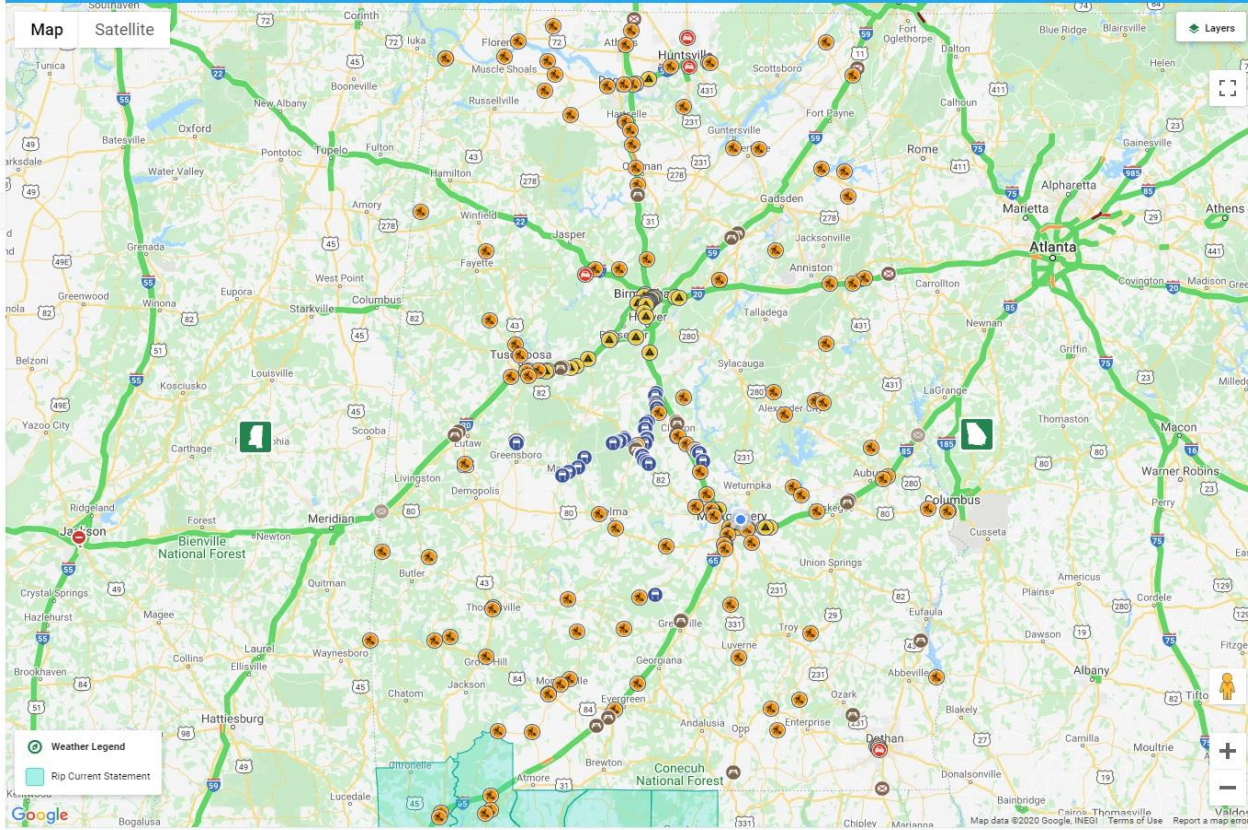
Rip Current Statement issued 11-05-2020 3:52 AM until 11-05-2020 12:00 PM for Mobile, Santa Rosa, Okaloosa, Escambia, and Baldwin counties

Map Satellite

Layers

Weather Legend

- Rip Current Statement



Quick Zoom

–Select Area–

**Traffic Layers**

- Cameras
- Construction
- Crashes
- Incidents
- Events
- Facilities
- Ferries
- Signs

**Weather Layers**

- NWS Alerts
- Auto Refresh
- Road Conditions
- Speeds

Fast  Slow

Search

**Construction**

**Accidents**

- **Moderate Crash**  
AL269 at Cordova Gorgeas Rd
- **Moderate Crash**  
I-10 near Exit 30/Gauseway
- **Moderate Crash**  
US231/431 near Catina Rd
- **Minor Crash**  
US231/AL210/Ross Clark Cir at AL52
- **Moderate Crash**  
US431 past Govemort Dr

**Incidents**

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Created by The Alabama Department of Transportation







# Alabama TIS

algotraffic.com/TravelTimes

ALGO Traffic

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SITE CONTENT

- Map
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RESOURCES

- Documents
- External Links
- Twitter

Sponsored By

Home > Travel Times

## Travel Times

Search...

Rip Current Statement issued 11-05-2020 3:52 AM until 11-05-2020 12:00 PM for Mobile, Santa Rosa, Okaloosa, Escambia

ALL All Routes

I-10

- I-10 Florida To AL 59  
Estimated Time: 9 Minutes  
Speed: 65 MPH  
Updated 72 seconds ago
- I-10 Mobile To AL 59  
Estimated Time: 19 Minutes  
Speed: 58 MPH  
Updated 72 seconds ago
- I-10 Mobile To Mississippi  
Estimated Time: 25 Minutes  
Speed: 65 MPH  
Updated 72 seconds ago
- I-10 Mississippi To Mobile  
Estimated Time: 25 Minutes  
Speed: 65 MPH  
Updated 72 seconds ago
- I-10 AL 59 To Florida  
Estimated Time: 21 Minutes  
Speed: 65 MPH  
Updated 72 seconds ago
- I-10 AL 59 To Mobile  
Estimated Time: 17 Minutes  
Speed: 65 MPH  
Updated 72 seconds ago

ALGO Traffic

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SITE CONTENT

- Map
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- Cameras
- Amber Alerts
- Feedback

RESOURCES

- Documents
- External Links
- Twitter

Sponsored By



ALGO Traffic provides live traffic camera feeds, updates on Alabama roads, and access to exclusive ALDOT information.

- SITE CONTENT
- Map
  - Traffic Reports
  - Travel Times
  - Cameras
  - Amber Alerts
  - Feedback
- RESOURCES
- Documents
  - External Links
  - Twitter



Register Sign In

There are no amber alerts at this time

Rip Current Statement issued 11-06-2020 12:18 PM until 11-07

Home > Traffic Reports

## Traffic Reports

Search...

ALL All Regions

BHM Birmingham

HSV Huntsville

MOB Mobile

MGM Montgomery

TUS Tuscaloosa

Show Only Closures

Show Construction

Show Crashes

Show Incidents

Show Road Conditions

Show Special Events

Birmingham

### Road Closures

- Construction - Planned Roadway Improvements, Road Closed  
23rd St N All Directions at Rev. Abraham Woods Jr. Blvd in Jefferson County.  
Reported 50 days ago
- Construction - Planned Bridge Work/Inspections, Road Closed  
AL48 Both Directions @ MP3.0 at CR122 in Cleburne County.  
Reported 53 days ago
- Construction - Planned Roadway Improvements, Road Closed  
Richard Arrington Jr. Blvd All Directions at Rev. Abraham Woods Jr. Blvd in Jefferson County.  
Reported 50 days ago
- Construction - Planned Roadway Improvements, Road Closed  
17th St N All Directions at Rev. Abraham Woods Jr. Blvd in Jefferson County.  
Reported 43 days ago
- Facility - Welcome Center, Road Closed  
I-85 SB @ MP78.0 at ALABAMA WELCOME CENTER in Chambers County.  
Reported 12 months ago
- Construction - Planned Roadway Improvements, Road Closed  
Richard Arrington Jr. Blvd All Directions at 25th St N in Jefferson County.  
Reported 29 days ago





# Alabama TIS

**ALGO Huntsville** (@algo\_hvl) | 3,052 Followers | Huntsville, AL | [algotraffic.com](http://algotraffic.com)

**ALGO Birmingham** (@algo\_bhm) | 4,176 Followers | Birmingham, AL | [algotraffic.com](http://algotraffic.com)

**ALGO Tuscaloosa** (@algo\_tus) | 1,426 Followers | Tuscaloosa, AL | [algotraffic.com](http://algotraffic.com)

**ALGO Montgomery** (@algo\_mgm) | 2,019 Followers | Montgomery, AL | [algotraffic.com](http://algotraffic.com)

**ALGO Mobile** (@algo\_mob) | 1,641 Followers | Mobile, AL | [algotraffic.com](http://algotraffic.com)

**Tweets:**

- ALGO Huntsville** @algo\_hvl · 32m ✓ Moderate Crash on US231/431 NB @ MP 344.1 near Catina Rd in Meridianville. Expect moderate delays. More details: [algotraffic.com/Events/Details...](http://algotraffic.com/Events/Details...)
- ALGO Birmingham** @algo\_bhm · 17m ✓ Moderate Crash on I-20/59 WB @ MP 129 at Exit 129: Messer Airport Hwy in Jefferson County. Expect minor delays. More details: [algotraffic.com/Events/Details...](http://algotraffic.com/Events/Details...)
- ALGO Tuscaloosa** @algo\_tus · 43m ✓ Moderate Crash on AL269 NB @ MP 26.2 at Cordova Gorgeas Rd in Walker County. Expect moderate delays. More details: [algotraffic.com/Events/Details...](http://algotraffic.com/Events/Details...)
- ALGO Montgomery** @algo\_mgm · 5m ✓ Moderate Crash on US231/Eastern Blvd both dir. @ MP 139.5 before I-85 in Montgomery. Expect moderate delays. More details: [algotraffic.com/Events/Details...](http://algotraffic.com/Events/Details...)
- ALGO Mobile** @algo\_mob · 16m ✓ Congestion cleared on I-10 EB @ MP 30.8 near Exit 30/Causeway in Baldwin County.
- ALGO Mobile** @algo\_mob · 16m ✓ Moderate Crash cleared on I-10 @ MP 32.3 near Exit 30/Causeway





# Alabama TIS





# Alabama TIS

Know Before You Go, Check ALGOTraffic.com

Monday November 9, 2020 1:41:55 PM

Rip Current SI

## Current Weather - Tuscaloosa Regional Airport

This Afternoon **Mostly Cloudy**  
78°/66°  
Wind E 5 to 10 mph



Tuesday

Veterans Day

Thursday

Friday



78°/67°



79°/60°



76°/52°



73°/53°

Weather Data Provided By:

## Traffic Reports

### Planned Roadway Improvements

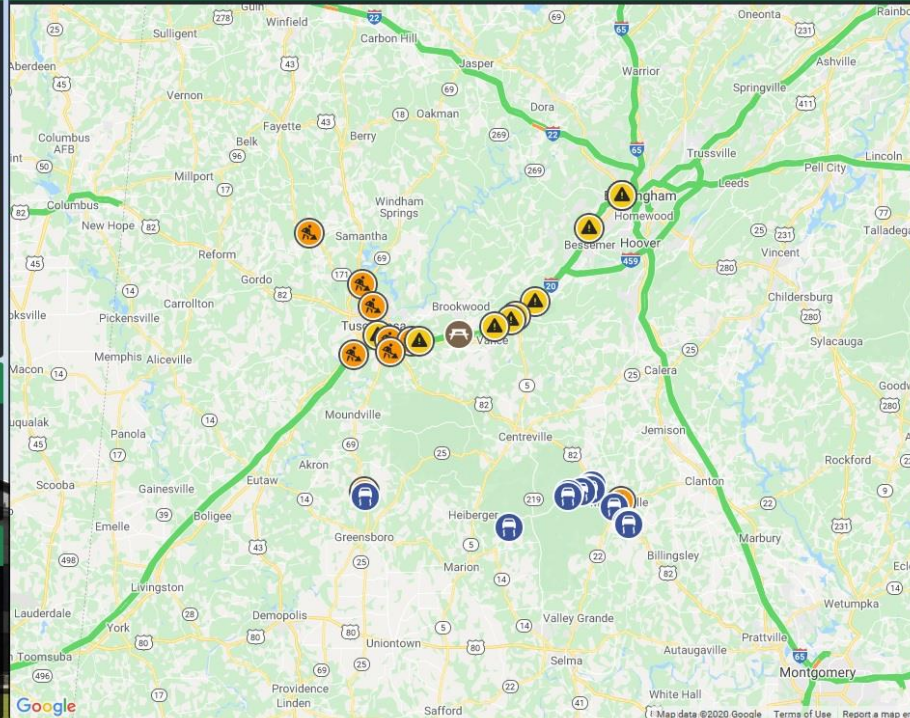
I-20/59 EB before MP 66  
Roadwork blocking the right lane and right shoulder. Please use caution when traveling through this area.

## Travel Times

### COVERED BRIDGE RD/EXIT 86 to I-359/AL-69/EXIT 71

Time: 14 Minutes  
Speed: 65 MPH  
Distance: 14.9 Miles

## Live Traffic



## Traffic Cameras

### I-20/59 & Center St. in Birmingham



## Social Media



USA TODAY

Storm Eta soaks South Florida after making landfall on Florida Keys, could approach Gulf Coast later this week. · Did you see it? Northeast residents saw a fiery meteor streak across the sky Sunday. · ShowBiz Minu





# Alabama DOT

For more information, contact:

Brett Sellers

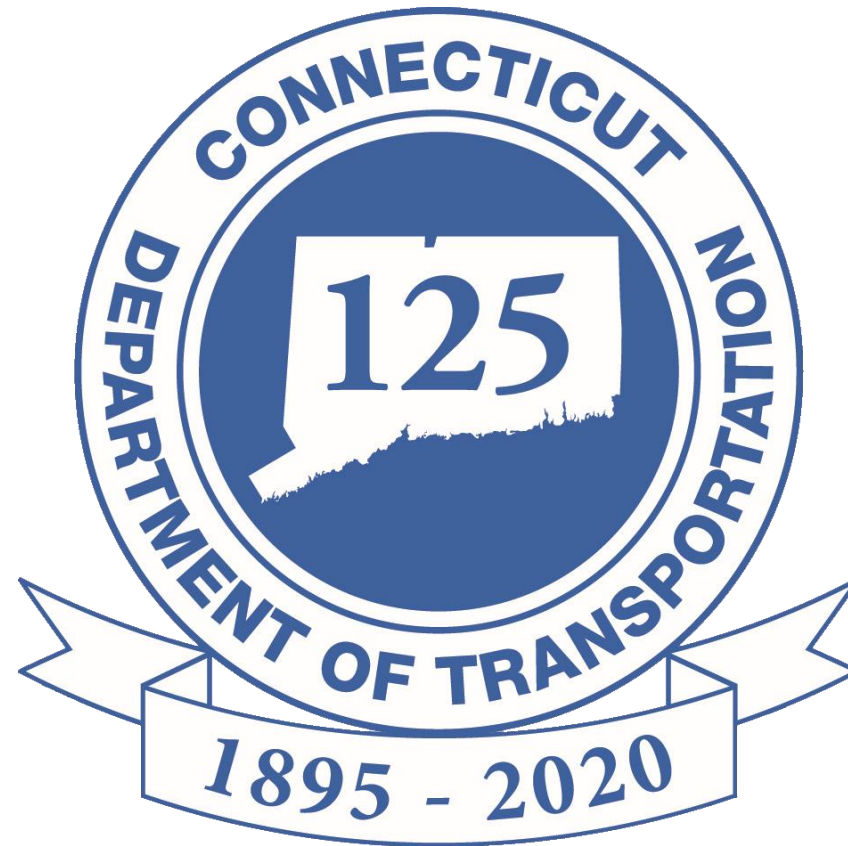
334-242-6885

[sellersb@dot.state.al.us](mailto:sellersb@dot.state.al.us)





# Connecticut DOT





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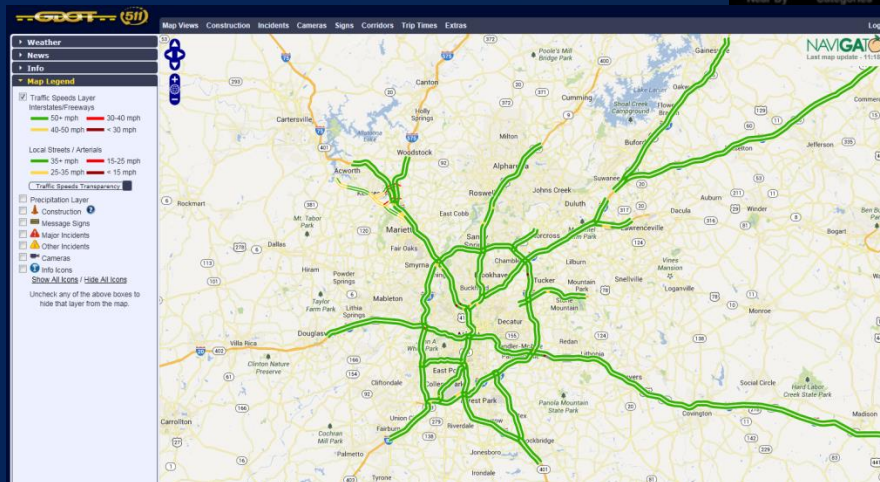
# Georgia DOT



# Primary Means of Distributing Info

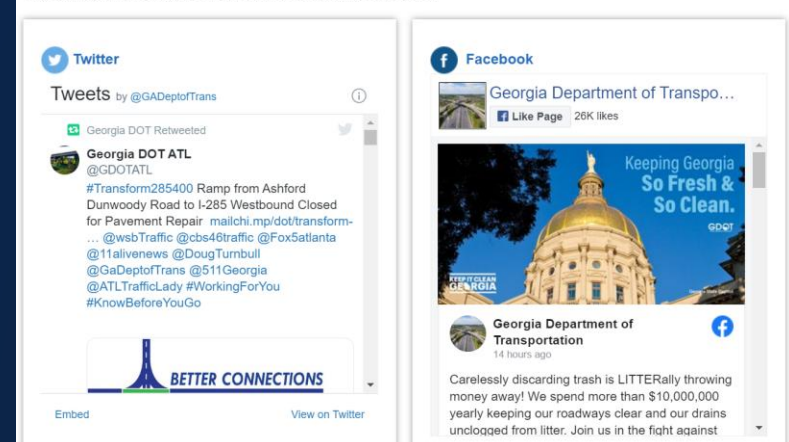


Apps  
For  
Android  
and iOS



## Social Media Hub

Stay connected with Georgia DOT by following our social media accounts.





# Collecting Data with Optasense

- **Description**
  - Optasense provides an acoustic sensing device that converts existing GDOT roadside fiber into traffic sensors. A single sensor can cover 30 miles of roadway with one device depending on roadside fiber placement.
- **How it works**
  - A high frequency light sent from point A to point B on a single fiber optic strand senses vibrations in the roadway to provide volume and speed.
- **Results**
  - Initial results are still being compiled but clearly demonstrate the potential of a fiber optic sensing solution to deliver accurate and timely traffic flow information using existing roadside fiber as a traffic sensor.
  - Installation and calibration of the system was completed within one month of the project start with zero highway closures or need for on-site construction.



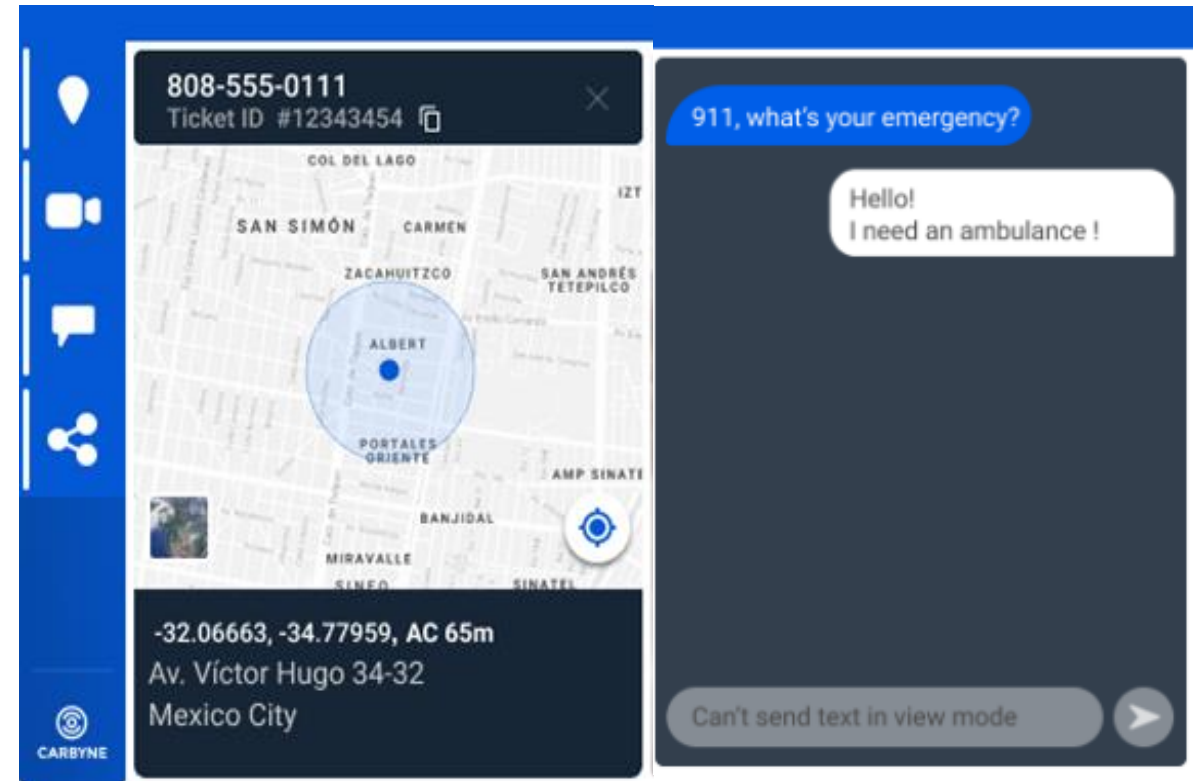
# Collecting Location Data with Carbyne c-Lite

- **How it works**

- When motorists call 511 requesting HERO or CHAMP assistance and are not sure of their location, an Operator can launch the c-Lite tool from their desktop.
- The 511 Operator will then ask if it's okay to send a link to the motorist cell phone to determine their exact location.
- When the motorist receives the link, they will click on it and be prompted to enable their location.
- If successful, within 10-20 seconds the 511 Operator will have the motorist exact location
- To communicate with callers who are unable to speak, shouldn't speak or who disconnected from the voice call unexpectedly, call-takers can use the Chat Function. NOTE: A chat window will automatically open when a caller sends a message.

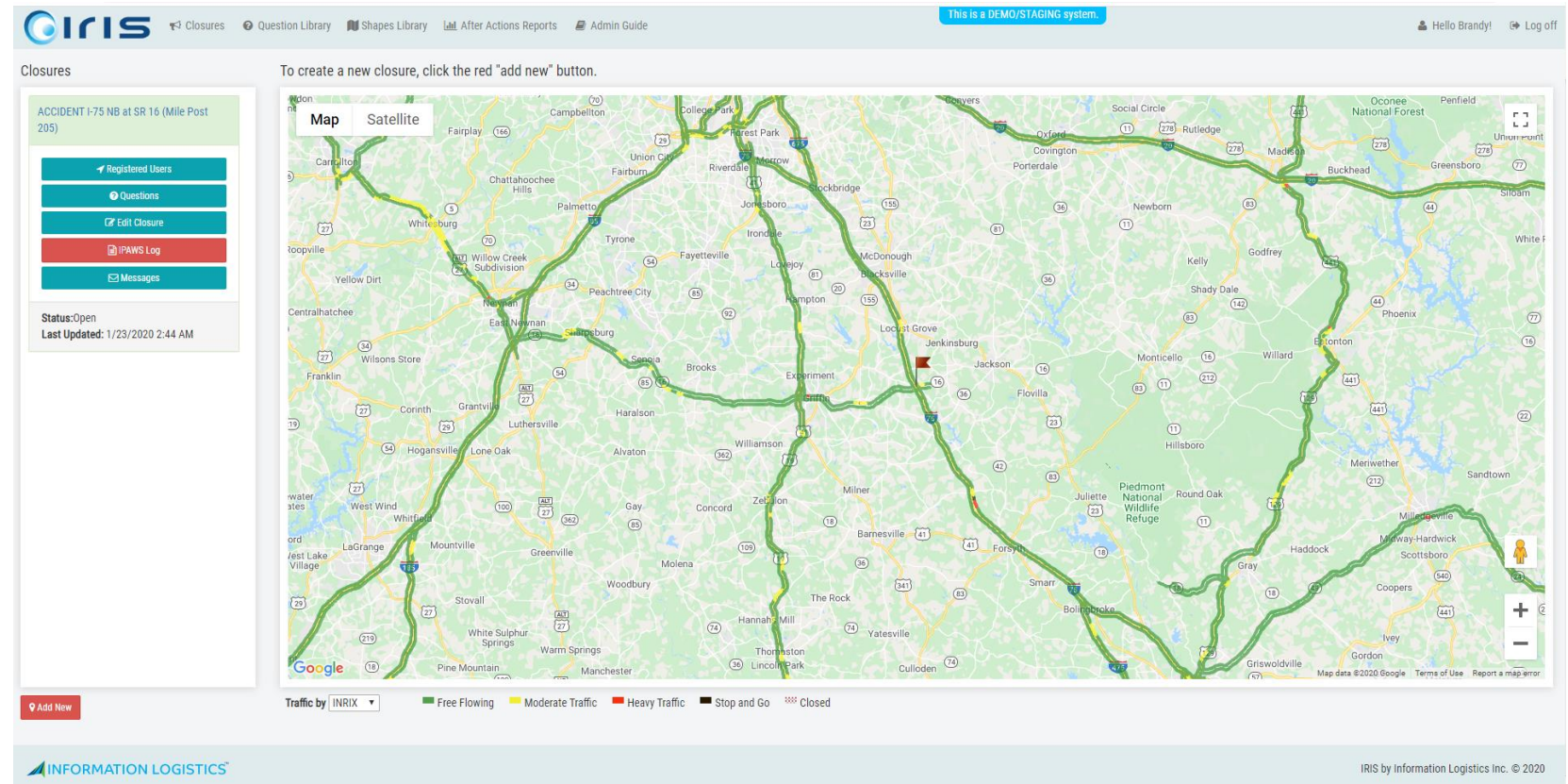
- **Results**

- Initially provided 6 licenses for testing and evaluation
- First weekend of use utilized the product 30 times only experiencing minor issues and callers being very open to the use of the product
- At the moment we are averaging 13 uses a week
- An additional 10 licenses were provided through our partnership with Carbyne to complete a large use case pilot Phase 1 testing. This provides all operators in third shift access.



# Preemptive Alerts with GA Alert (HELP)

- This product was originally created to efficiently push official messages to geo-targeted customers.
- GDOT sees the benefit in this messaging but through our pilot is looking to expand the use case of this product and preemptively provide event details to motorists.
- If done correctly this will reduce the queue size seen at the event and decrease the possibility of secondary accidents



# Preemptive Alerts with Drivewyze

- Description**
  - GDOT is piloting an infrastructure-less safety solution with Drivewyze to provide in-cab alerts to truckers with targeted messaging (ex. Sharp Curve Ahead, Slow Down)
  - GDOT identified 6 locations in the Metro Atlanta area that experience a higher than average number of commercial motor vehicle incidents resulting in injuries and fatalities.
- How it works**
  - Geofenced areas are drawn on a digital map. When a truck with the Drivewyze app enters the area, a virtual message is sent to their in-cab system (ie ELDs) to provide an audible and visual alert
  - Since the app is tied into ELDs, driver behavior, such as breaking or slowing, can be ascertained and analyzed
- Results**
  - Initial Results: As of July 2020, 187,534 safety alerts have been sent to 27,062 unique vehicles
  - Preliminary results showing an average 13 % decrease in hard braking activities since virtual messaging has gone live.
  - Full report to determine driver behavior changes provided by December 2020.



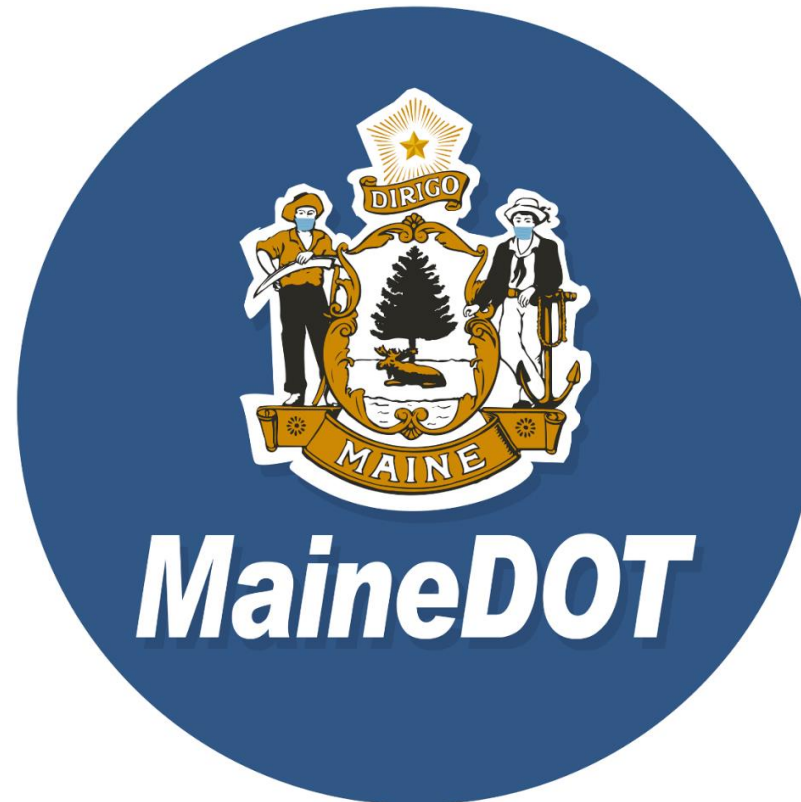
<u>Location No:</u>	<u>Location</u>	<u>Message</u>
1	I-285 at I-75 (North side, all approaches) I-285 East to 75 North I-75 south to I-285 East I-75 North to I-285 West	CONGESTION AHEAD, PREPARE TO STOP
2	I-285 SB to I-20 WB	SHARP CURVE AHEAD, SLOW DOWN
3	I-20 EB at I-285 Merge	MERGING TRAFFIC AHEAD, RIGHT LANES USE CAUTION
4	I-20 WB at Thornton Rd (afternoon)	TRAFFIC SLOWED NEAR THORNTON ROAD, PREPARE TO STOP
5	I-75 SB near Jonesboro Rd (afternoon)	LIMITED VISIBILITY, PREPARE TO STOP High Accident Area
6	I-675 SB to I-75 SB (Closer to 75 merging traffic between 675 and 75 right hand median)	SHARP CURVE AHEAD, SLOW DOWN

**For more information, please contact**

**Matthew Glasser**  
**404.635.2838**  
**[mglasser@dot.ga.gov](mailto:mglasser@dot.ga.gov)**



# Maine DOT





# MAINE DOT TRAVELER INFORMATION

Stephen Landry

[Stephen.Landry@maine.gov](mailto:Stephen.Landry@maine.gov)

Colby Fortier-Brown

[Colby.Fortier-brown@maine.gov](mailto:Colby.Fortier-brown@maine.gov)

# 1) PROVIDING INFORMATION

- Message boards using Compass ATM
- Compass Events to Waze
- New England 511 (right)
  - MyTrips (emails and texts)
- Travel Time Signs
- Social Media through MaineDOT Creative Services

The screenshot displays the New England 511 website interface. At the top, there is a navigation bar with links for Home, Traffic, Transit, Trucking, Parking, Biking, Weather, Airports, My Trips, and More Info. Below this is a search bar and a language selection dropdown. The main content area features a map of Maine with various colored markers indicating incidents and roadwork. On the left side, there is a sidebar with sections for Emergency Announcements and Incidents/Construction, listing specific events like 'NH: Hogback Rd East: Incident' and 'ME: ME-27 North: Roadwork'. On the right side, there is a 'Map Legend' section with checkboxes for Incident, Roadwork, Future Events, Road Restrictions, Traffic Speeds, Special Events, Cameras, Weather Stations, Driving Conditions, Message Signs, and NWS Doppler Radar. The footer contains copyright information and links for Help, FAQ, Contact Us, Terms and Conditions, and a circled 'Developer Portal' link.



# 2,3,5) DATA AND EMERGING TECH. FOR WINTER MESSAGING

## Manually Using WOOD/RWIS

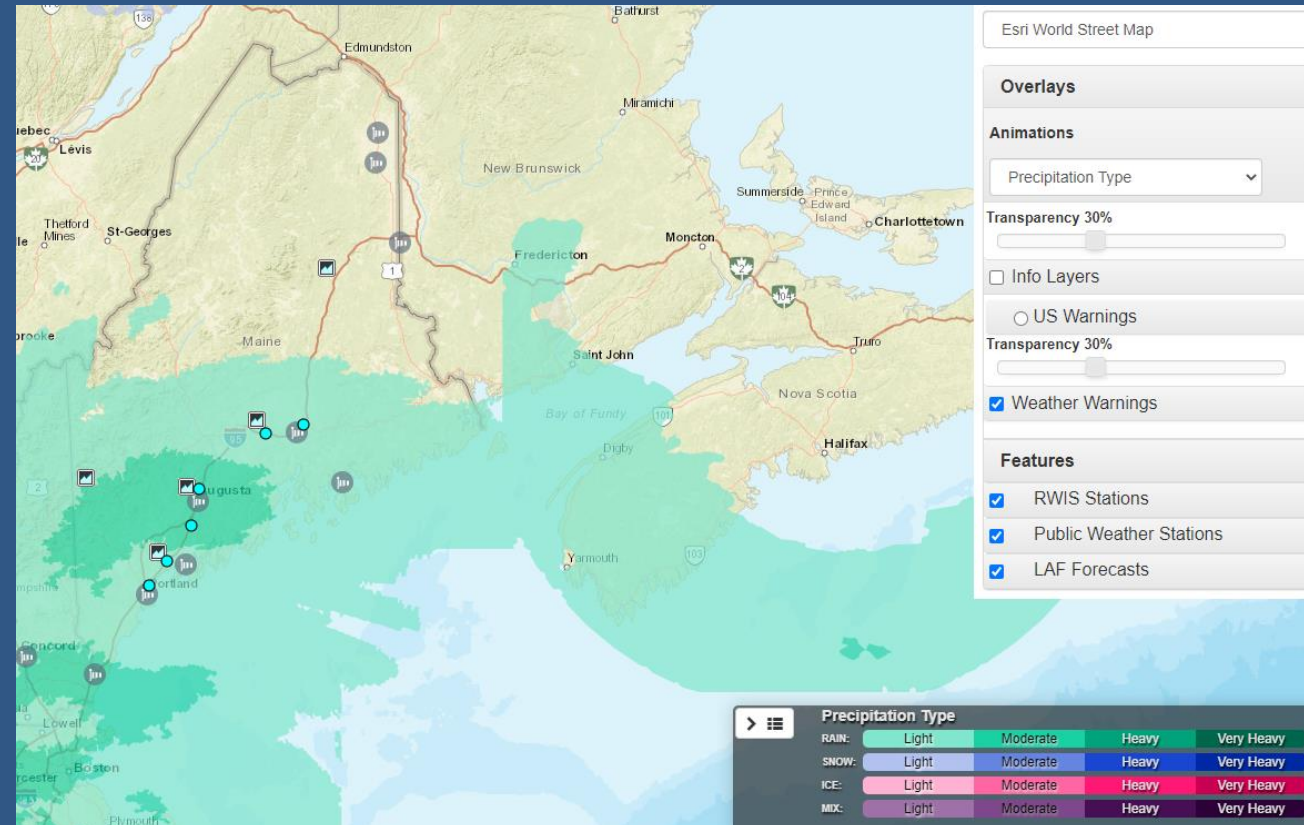
- Message Boards Manually Activated
- Proactive Social Media

Maine Discussion

\*\*Updated Precipitation Amounts\*\* Mainly cloudy today, except cloudy with rain or snow over southern Maine this evening. Mainly sunny Friday, except cloudy with rain or snow over southern Maine Friday morning. Sunny on Saturday.

Forecast  
T stands for Trace

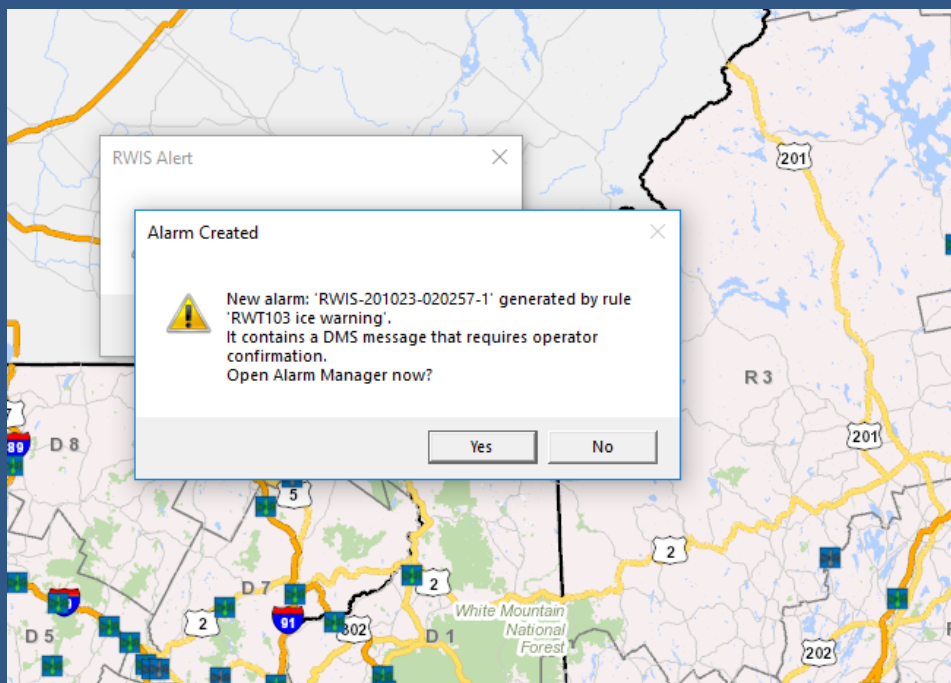
Date	Thu 29				Fri October 30 2020								Sat Oct 31																																						
Period	Afternoon		Evening		Overnight	Morning		Afternoon	Evening	Overnight	Morning		Afternoon	Evening																																					
Hour (EDT)	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Rain																																																			
Showers																																																			
Snow Showers																																																			
Liquid Rate (in/3h)	0	0.05	0.07	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Freez. Rate (in/3h)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Snow Rate (in/3h)	0	0	0	0	0.3	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Liquid Accum. (in)	0	0.05	0.13	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19					
Freez. Accum. (in)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Snow Accum. (in)	0	0	0	0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3					
POP (%)	30	100	100	80	70	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Pressure (mb)	1010	1011	1011	1011	1011	1012	1014	1015	1015	1017	1020	1023	1026	1029	1032	1032	1031																																		
Temperature (°F)	45	41	38	36	33	30	28	31	35	34	26	22	19	18	18	32	39																																		
Dew Point Temp (°F)	35	38	38	35	31	24	20	14	10	12	13	15	14	14	13	14	13																																		
Humidity (%)	69	88	98	97	92	78	70	49	35	40	57	73	81	83	81	46	34																																		
Wind Chill (°F)	-	-	-36	34	29	24	23	25	31	31	22	18	15	14	18	32	39																																		
Cloud Cover (%)	100	100	100	100	100	100	60	10	10	10	10	10	0	0	0	0	0																																		
Visibility (mi)	9	9	9	9	7	9	9	9	9	9	9	9	8	7	8	9	9																																		
Wind Dir (true/from)	NNE	NE	NNE	NE	NNE	NE	NNE	NNE	N	NNW	NW	NW	NW	NW	NW	WNW	SSW																																		
Wind Speed (mph)	2	1	3	3	4	6	4	5	4	3	4	3	3	3	2	1	2																																		
Gust Speed (mph)	2	2	4	4	6	8	6	7	6	4	5	4	4	4	4	2	2																																		



# 2,3,5) DATA AND EMERGING TECH. FOR WINTER MESSAGING

## Automation from RWIS

- Message Boards Automatically Activated
  - Human in the loop
  - Currently only for Reduce Speed 45 signs based on Grip



ID	Type	State	Created	Last Update	Cause	Associated Event
RWIS-201030-094...	RWIS Status Alarm	reported	2020-10-30 09:43:0...	2020-10-30 09:43:0...	Rule RWT	None
RWIS-201030-114...	RWIS Status Alarm	reported	2020-10-30 11:41:0...	2020-10-30 11:41:0...	Rule Crew 228	None

**Device Info**  
RWIS Station  
Location: Test Crew  
Id: 772

**Trigger Conditions**  
And  
ID 772:Anystation:Any: 772:rwis:station:Maine  
Surface Status IceWarning: IceWarning  
Status Data Age Less Than 1: 00:00:00.2203020

**DMS Messages**  
REDUCE SPEED 45 MPH

**DMS Locations**  
I-95 Mile 130 NB  
I-95 Mile 132 NB  
I-95 Mile 138 NB  
I-95 Mile 130 SB  
I-95 Mile 132 SB  
I-95 Mile 138 SB

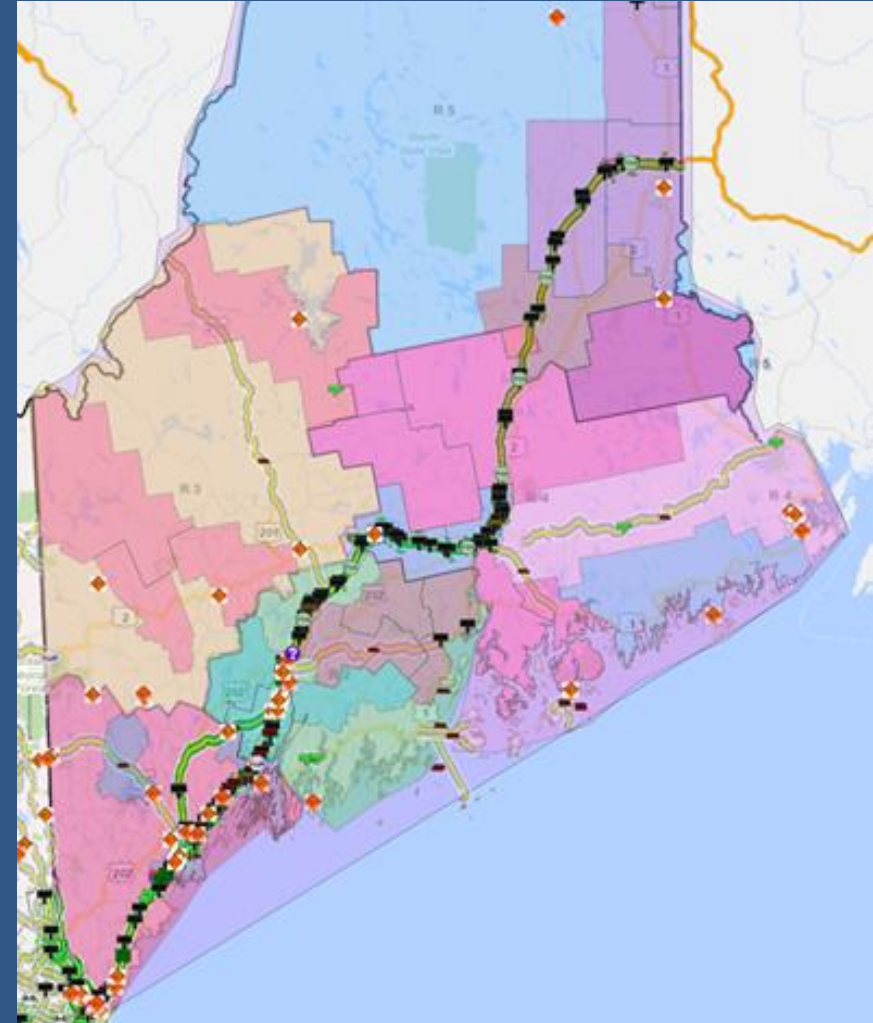
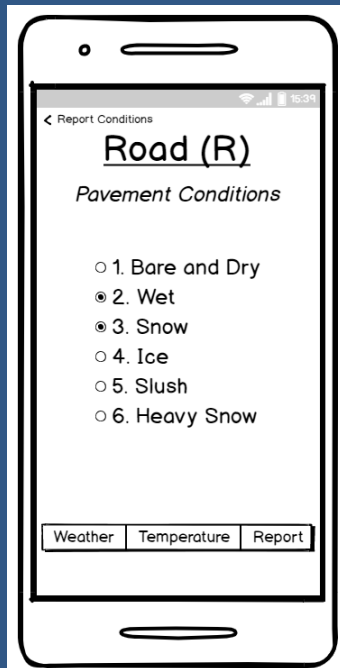
**Update History**

Update Time	Update Action
10/30/2020 9:43 AM	Alarm Creation

# 2,3,5) DATA AND EMERGING TECH. FOR WINTER MESSAGING

## R(oad) W(eather) T(emperature)

- App Developed in 2018, Deployed 2020
  - Data Visualization for TMC and on NewEngland511
  - Automated alerts to surrounding crews (from NH too)
  - Certain reports restrict oversized loads





THANK YOU!  
EXTRA SLIDES BELOW

Stephen Landry  
[Stephen.Landry@maine.gov](mailto:Stephen.Landry@maine.gov)  
Colby Fortier-Brown  
[Colby.Fortier-brown@maine.gov](mailto:Colby.Fortier-brown@maine.gov)

## 4) HAS COVID PANDEMIC CHANGED TRAVELER INFORMATION?

- We use pandemic-specific safety messages on our message boards

## 5) DATA FOR TRAVELER INFORMATION

- RWIS data, as explained
- Probe Data (TomTom) to automatically populate travel times
- TomTom in Compass, and through their platform for delays
- Waze App in our Mapviewer with Reports+Jams
  - Filterable to reduce information overload
- Google Maps
- Data Capable (platform that uses AI to geolocate crowdsourced datasets from social media +)

## 6) THIRD PARTY TRAVELER INFORMATION

- Compass events feed to Waze
- Other data providers get information from NewEngland511 Developer Portal

## 8) INCIDENT DURATION STRATEGIES

- TomTom/Waze/Google Maps to see if things are still happening
- Operators call out to Crew Supervisors, Safety Patrol, and State Police to check in
- Open funding request to develop a Crowdsourcing Module/Process that will aggregate datasets (including social media input about ongoing incidents), verify accuracy of reported incidents, organize reported incidents, link reported incidents to Compass events, and notify operators if compass events are still active and reports have gone away or have been reported to be gone in social media.





# Maryland DOT-SHA





# What are you doing to provide information to the traveling public?

## EXISTING:

- MD 511 (CHART) Website
- MD 511 Twitter
- DMS

## NEW:

- Joined Waze for Cities program – entering major closures manually
- Procured INRIX HELP Platform – continuing setup phase



STATE HIGHWAY  
ADMINISTRATION



# What type of information are you providing during winter weather conditions?

## Severe Weather Information

### Weather Related Road Conditions

Information on Interstate, Primary and Secondary Road Conditions

### Local Weather Station Data



View current weather data from CHART System Weather Stations

### Snow Emergency Plans

View the latest list of Snow Emergency Plans in effect

### Traffic Incidents and Events



View reported traffic incidents, weather road closures, active construction and maintenance closures information

### Live Cameras

View live traffic cameras throughout Maryland right in your browser.

### MDOT SHA S.T.O.R.M.

Near real-time tracking of MDOT-SHA Winter Operation vehicles during winter weather events

### Maryland State Office Closings

Click here to go to the latest list of Maryland State Office Closings (Offsite Link)

### Federal Government Operating Status

Click here to go to the latest list of Federal Government Operating Status. (Offsite Link)

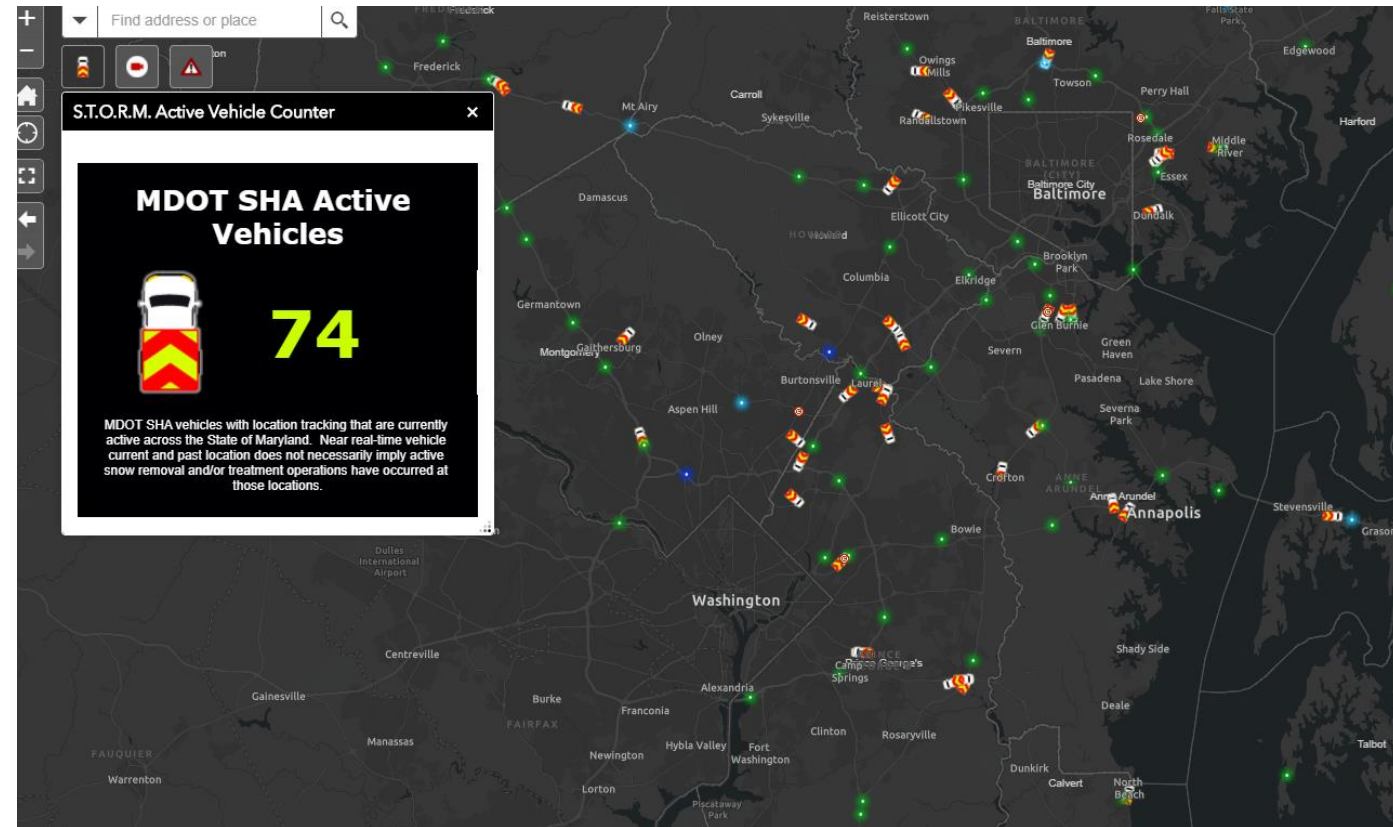
### Emergency Truck Parking Map. (Offsite link)

Get information about emergency truck parking.



# What type of information are you providing during winter weather conditions?

- Snowplow / Vehicle Locations
  - Only available “in season” (Nov – April)
  - Displays vehicle’s last 30-minutes of activity
  - Vehicles stationary for 10 minutes are removed
  - Extensive FAQ
- RWIS Data – always available
- Separate web page to display only weather-related closures and equipment deployment totals (# of dump trucks, # pickups, # of loaders, # of snow blowers)





# How are you dealing with unknown incident duration?

Incident clearance time prediction

Type Involved vehicles Responder Center Pavement & Hazmat Time Location

Prince George's Howard Baltimore City Harford Cecil

Home Back END

**Summary**

- Collision with Property Damage
- Travel lane blockage, 1 Travel lane blocked
- NO TOW service
- WET pavement condition
- NO hazard material related
- WEEKEND, NIGHT time
- 2 Cars and NO TRUCK involved
- BALTIMORE region

**Estimated Clearance time**

Time	Percentage
10:30	60%
10:35	70%
10:45	80%

Average CT = 25 mins

Confirmed	15:03
Delay Cleared	No <input type="button" value="Delay Cleared"/>
Scene Cleared	No <input type="button" value="Scene Cleared"/>
Est. Hours To Clear	Unknown
Op Center POC	
On Scene POC	

Using data analytics to enhance predictive capabilities





Model	Training set	Test set	Additional datasets for model updates		
	2012~2015	2016	Apr. 2017	May. 2017	Jun. 2017
Before updates	79.1% (1549/1958)	74.3% (465/626)	67.7% (21/31)	78.3% (36/46)	79.3% (23/29)
After update with Apr. 2017	80.0% (1566/1958)	77.0% (482/626)	87.1% (27/31)	78.3% (36/46)	79.3% (23/29)
After update with May. 2017	80.1% (1569/1958)	77.2% (483/626)	87.1% (27/31)	93.5% (43/46)	79.3% (23/29)
After update with Jun. 2017	80.2% (1570/1958)	77.2% (483/626)	87.1% (27/31)	93.5% (43/46)	<b>93.1%</b> <b>(27/29)</b>



# Maryland Department of Transportation – State Highway Administration

For more information, contact:

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410-582-5678

[jdicembre1@mdot.maryland.gov](mailto:jdicembre1@mdot.maryland.gov)





# Massachusetts DOT

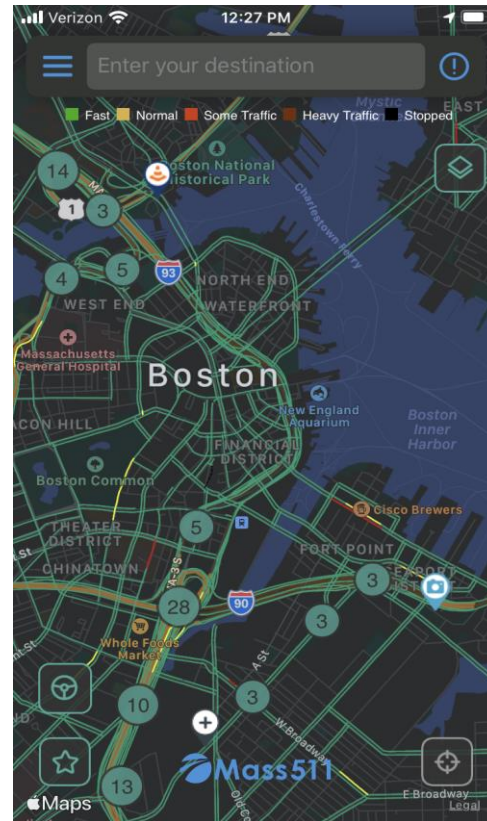




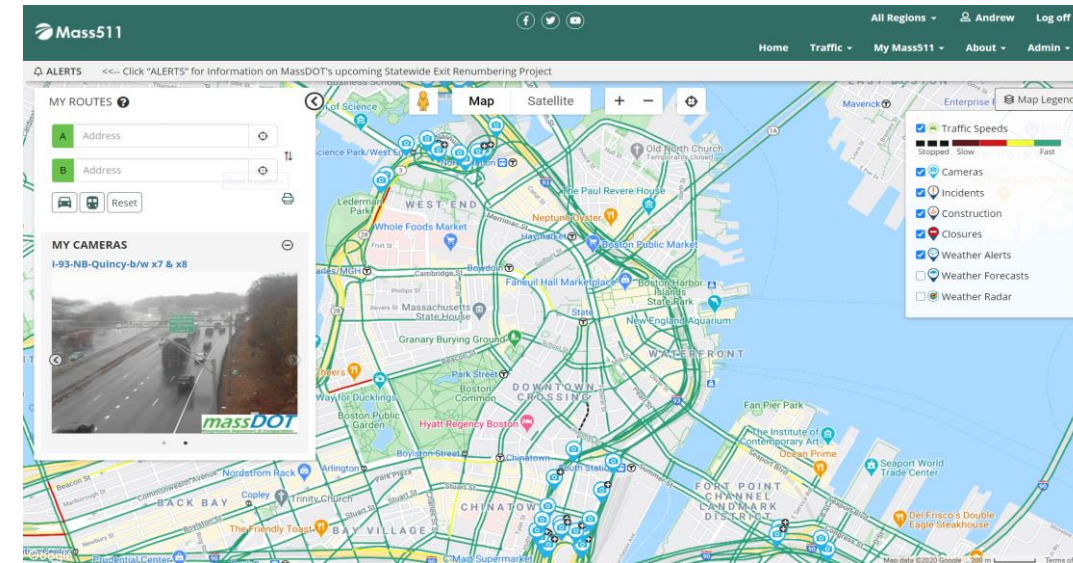


# What are you doing as an agency to provide information to the traveling public?

- Sharing TIS via XML
- Mass511
  - Web UI
  - Mobile App



Mobile UI



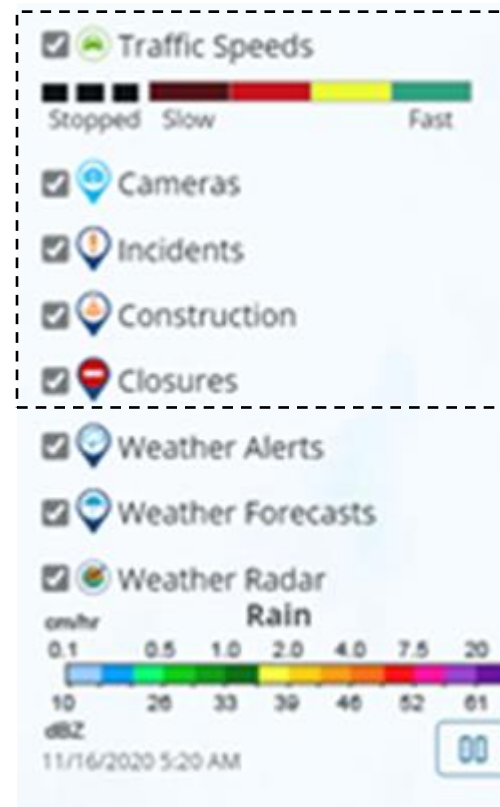
Web UI





# What type of information are you providing to the public during winter weather conditions? And what platform(s) are you using to do it?

- On Web UI
- On Mobile UI
- Future
  - Exploring RWIS
    - Roadway temp
    - Grip (traction)
    - Winds
    - Roadway conditions



\*\*Dashed line denotes what is currently visible to non-admin users





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Is there a unique or emerging technology that you are using or considering using to provide Traveler Information to the public?

- Bike Share
- Parking - Park & Ride
- Shared Travel
- *COVID testing/vaccine sites*
- Freight-Parking & Amenities
- Transit
- GoTime
- Ride Share
- Roadway conditions (weather)





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## Has the COVID pandemic changed the way you are providing Traveler Information to the public?

- Posted State COVID website link
- Considering posting COVID testing & vaccination facilities
- VMS PSA's





# Are you using data to make decisions about Traveler Information?

- Reviewing User Stories
- Web/mobile

Suggestion	None	It would be VERY helpful to have a traffic/incident info sign on 90 west BEFORE exit 4 (preferably before the Connecticut River bridge), so we have the option of getting off on Exit 4 and avoiding a traffic jam between Exit 4 and Exit 3. Thank you so much!!	7/6/20, 9:32 PM
Question	None	Hi all, Several weeks back I submitted a request for a developer's API key. Could you check on the status of that request please? Regards, Mike Dekrell Sr Traffic Quality Manager HERE Technologies	7/1/20, 10:55 AM
Question	None	Hello. Yesterday (June 29th) I got into a car accident coming into I-91 NB right before the Connecticut River. It happened at around 6:20 PM. I'm wondering if any of the traffic cameras recorded the crash and if I could get a copy. Thank you.	6/29/20, 7:39 PM
Suggestion	None	Re: Route 2 Rotary new pavement markings Hello, I am concerned about a new marking in the left lane westbound on Route 2 entering the rotary. The marking is a straight and left arrow. It seems to indicate you could turn left onto the rotary, which would be opposite the proper direction. I am very concerned that someone will misunderstand and turn the wrong way. A straight only arrow might be a little less confusing. Thanks so much Ruth Henning	6/28/20, 9:34 AM





# Are you using third party vendors to disseminate Traveler information and if so who and how are you doing it?

- We have public facing API/XML's
  - <https://www.mass.gov/service-details/highway-data-for-developers>
- Google
- Waze
- Working with Apple on API out of Mass511





## How are transit operators coordinating and sharing traveler information especially in this new COVID environment?

- Highway and Transit Ops Centers conduct center-center notifications
- HOC/TMC populates 511/3rd party API
- Mass511 seeks to support mode shift by providing enhanced TIS





# How are states dealing with unknown incident duration - how do you handle incidents when you really don't know the end time?

- MassDOT conducts a full response to all events and does not predict or forecast event end times.

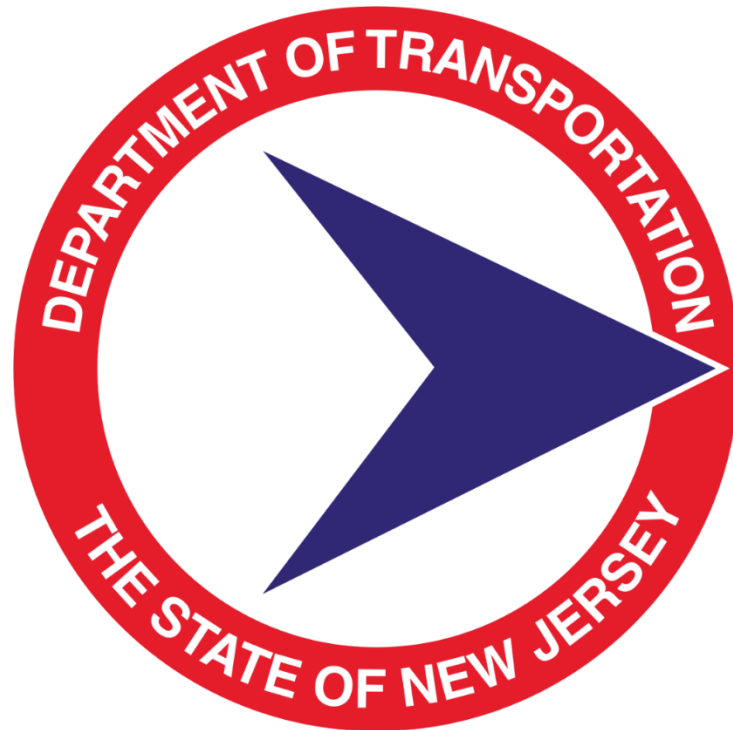






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# New Jersey DOT





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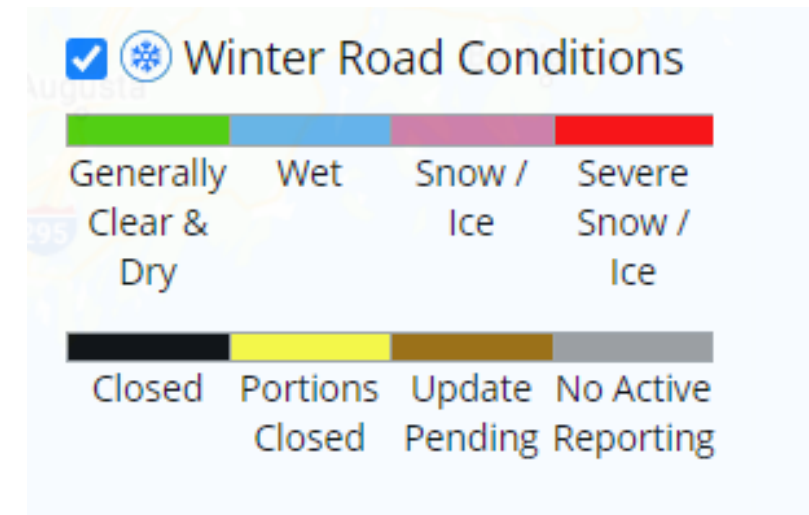
# New York State DOT





## NYSDOT Response to Roundtable Discussion Topics/Questions:

- ❖ What are you doing as an agency to provide information to the traveling public?
  - Primarily we use our 511NY system (web, mobile, & IVR) to provide traveler information. A key component of providing information is via VMS messaging led by the Governor's office.
- ❖ What type of information are you providing to the public during winter weather conditions. And what platform(s) are you using to do it?
  - We show winter road conditions on 511NY (IBI product), manually updated by field personnel every 4 hours using this scale:
- ❖ Is there a unique or emerging technology that you are using or considering using to provide Traveler Information to the public?
  - Recently NYSDOT signed an agreement with Waze for Cities to use/show Waze information.





## NYSDOT Response to Roundtable Discussion Topics/Questions:

- ❖ Has the COVID pandemic changed the way you are providing Traveler Information to the public?
  - We continue to use 511NY, phone, VMS messaging, public announcements, and social media such as Facebook, Twitter, etc. for getting out information.
  
- ❖ Are you using third party vendors to disseminate Traveler information and if so who and how are you doing it?
  - Through the 511NY mobile API we share data with TomTom, Garmin, Google, Apple, etc.



# New York State Department of Transportation

For more information, contact:

Paul Krekeler

518-457-0919

[Paul.Krekeler@dot.ny.gov](mailto:Paul.Krekeler@dot.ny.gov)





# North Carolina DOT





# 1. Winter Weather Conditions on Website



The screenshot shows the DriveNC.gov website interface. At the top, there is a search bar with the text "Wake County, North Carol...". Below the search bar are navigation tabs for "Traffic Map", "Incidents", and "Snow & Ice". The "Snow & Ice" tab is selected. On the left side, there is a sidebar with "Choose Map Pins" and "View Data Layers" sections. The "Choose Map Pins" section includes options for "All Types", "Planned Road Work", "Other Incidents", "All Roads", "Future Events Hidden", and "Ongoing Event" (with "Hurricane Fred (test)" selected). The "View Data Layers" section includes "Cameras", "Congestion", "Rest Areas", and "Snow & Ice" (which is highlighted with a green dot). The main map area shows a map of North Carolina with various counties labeled. A pop-up window is open over the Avery County area, displaying "Avery County Snow & Ice" and "Road Conditions". The road conditions are listed as: "Interstate" (N/A), "Primary" (Partially Covered With Snow/Ice), "Secondary" (Covered With Snow/Ice), and "Last Update" (4 minutes ago, 11/18/2020, 2:46 PM). The map also shows various traffic icons and labels for neighboring states like Kentucky, Virginia, and South Carolina.



### 3. Unique or emerging technology



Wireless Emergency Alert (WEA) is a one-way version of HELP

- a) Work thru state or local Emergency Mgmt. Agency
- b) Can push messages to a polygon
- c) We use for trapped queues





## 8. Trav Info for unknown incident duration



1. Every incident we put into our ATIS has a start time and end time; required fields.
2. End time is good for work zones and run of the mill crashes.
3. Becomes challenging in these cases when we honestly have no idea when road will re-open
  1. Big bad crashes when infrastructure is damaged
  2. Storms that make ocean over wash our only coastal highway (and people wait at barricades or cancel vacations based on this info)
  3. Hurricane and other flooding: no real way to know when riverine flooding will end when hurricane is moving slowly across our state. During Florence we chose “2099” and some were confused.
  4. Hesitant to put “unknown” b/c then we will have to always police all incidents to see if they have been orphaned in our system.

Does anyone have a way to handle “unknowns” for incident end times?



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# North Carolina DOT

For more information, contact:

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919-825-2615

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# Pennsylvania DOT



# PENNDOT TRAVELER INFORMATION UPDATE

- ✓ **511PA Joint Contract**
- ✓ **511PA Mobile Application and Regional Traffic Report on IVR**
- ✓ **PennDOT Developer Resources**
- ✓ **COVID Traveler Information Changes**
- ✓ **Strategic ITS Deployment for Winter (Mobile Cameras and Changeable Message Signs)**
- ✓ **Winter Related Public Information (RWIS, Snowplow AVL, Road Conditions, Weather Forecast, Rest Facilities, etc....)**
- ✓ **Performance Awareness during Holidays and Special Events**
- ✓ **Commercial Vehicle Restrictions Page**
- ✓ **Future Traveler Information Updates**



# PENNDOT'S USE OF 3<sup>RD</sup> PARTY DATA?

## Planning

Regional Traffic Operations Plans

Identification & Understanding of Roadway Deficiencies

Validating expected Performance of Projects

Partner Collaboration

Automated Work Zone Speed Enforcement

## Design

Lane Use Determination

Calibration & Analysis

Benefit Cost

Scenario & Event Planning

Smart Work Zone Applications

## Management and Operations

Early Event Detection

Situational Awareness & Event Management

Advanced Automation and Notification

After Action Reviews (AARs) and Program Auditing

## Performance Reporting

MAP-21 Reporting

Statewide Performance Reports

TSMO Detailed Reports

## Public Use

511PA Real-Time Overlay

511PA Traffic Forecasting and Estimation of Travel Reliability

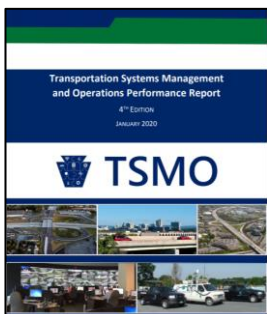
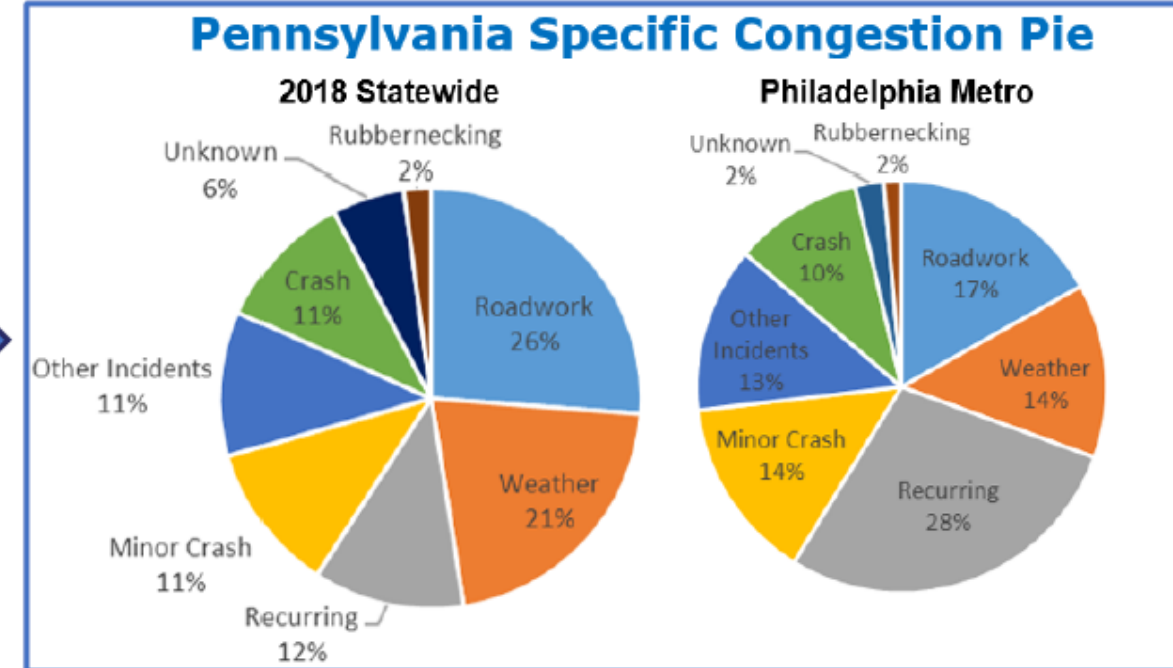
Travel Time Messaging

Traffic Slow Down & Back of Queue Information



# PERFORMANCE REPORTING

## TSMO Analytics and Reporting



**Performance Reports Located at:**

<https://www.penndot.gov/ProjectAndPrograms/operations/Pages/default.aspx>

or Google "PennDOT TSMO"



# WINTER WEATHER RESTRICTIONS

## PENNSYLVANIA Weather Event Vehicle-Restriction Plan

**TIER 1**

**TRAVEL RESTRICTIONS**

Speed Restrictions (45 MPH - ALL VEHICLES)  
& Right-Lane Only Travel (COMMERCIAL VEHICLES)

**VEHICLES BANNED**

EMPTY TRUCKS, OVERSIZE LOAD, BOX TRUCKS, BUSES, RVs, TRAILERS, MOTORCYCLES

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**TIER 2**

**VEHICLES BANNED**

All Tier 1 restrictions plus:

LOADED TRUCKS, EXCEPT CHAINS ON BOARD

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**TIER 3**

**VEHICLES BANNED**

All Tier 1 & 2 restrictions plus:

LOADED TRUCKS, EXCEPT CHAINS ON BOARD

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**TIER 4**

**VEHICLES BANNED**

All Tier 1, 2 & 3 restrictions plus:

CHAINS ON BOARD

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**TIER 5**

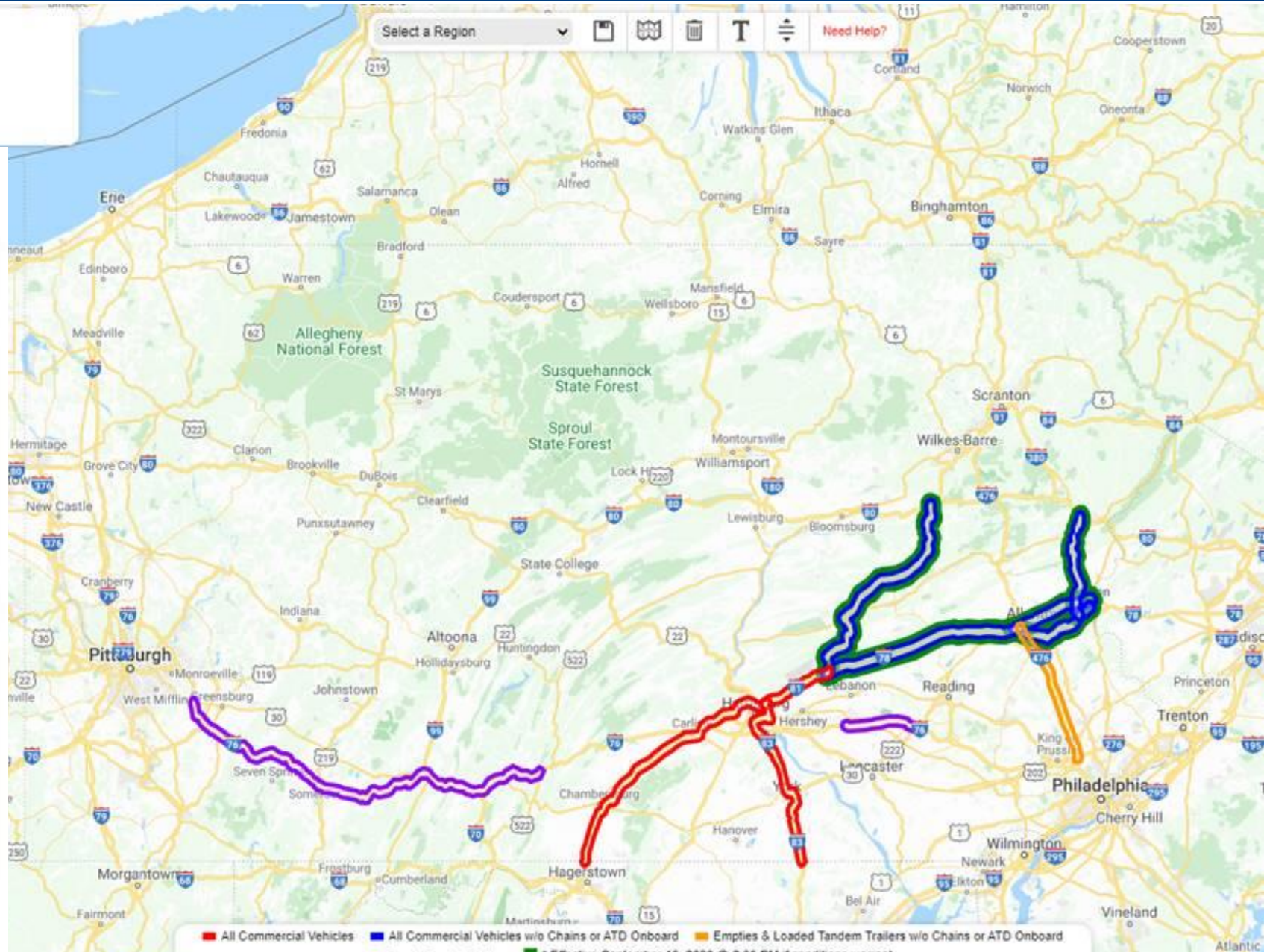
**VEHICLES BANNED**

FULL BAN: ALL vehicles including passenger cars & trucks

HIDE LEGEND

Active Restrictions

Planned Restrictions



# VIRTUAL HIGHWAY ADVISORY RADIOS



ATMS

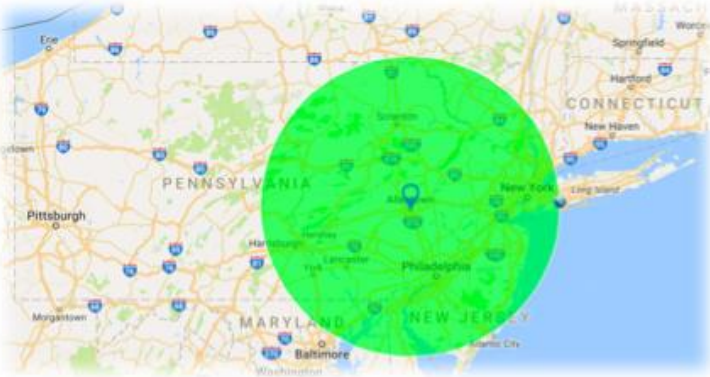


**511PA Website** with voice

IVR – **Priority Floodgate**

Geofenced **DriveMode Voice Alert**

Geofenced **Push Notifications** with voice







# Pennsylvania Turnpike Commission



# ITS Devices

Device	Systemwide		
	Existing*	Design/ Construction	Total
DMS-ML	99	36	135
DMS-PE	65	36	96
CCTV	69	60	129
RWIS	22	4	26
<b>HAR</b>	<b>REMOVED</b>	<b>0</b>	<b>0</b>

\* Includes devices that have passed OAT but still in construction





# Data Sharing



## Data Sharing with 3<sup>rd</sup> parties

- INRIX
- Waze – Connected Partner
- Google maps – November 2020
- DriveWyse
- FreightWaves
- Coming soon.....Apple maps

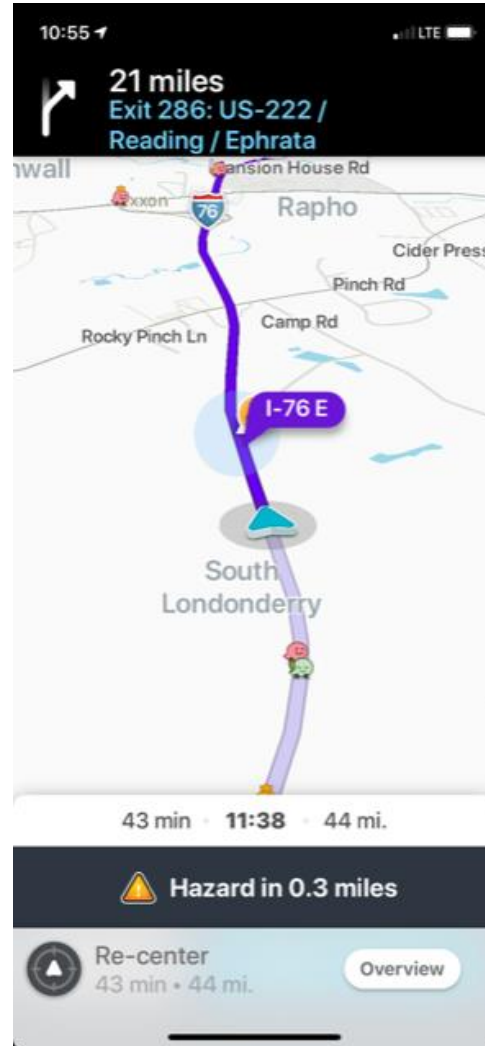
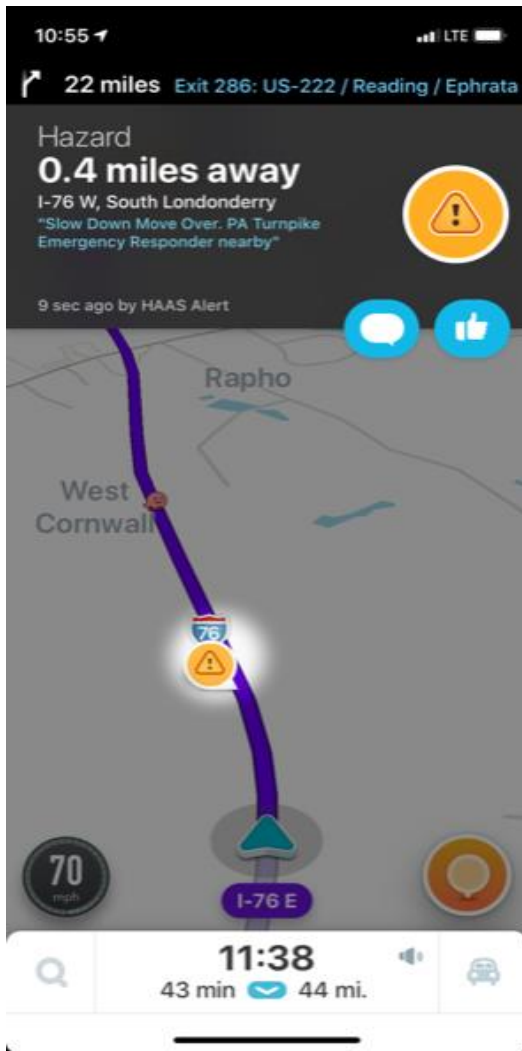


# PTC uses Crowdsourcing

- Waze Connected Partner
  - Share incident and work zone data
  - Receives Waze data for our roadway
  - PTC can close a road in Waze
  - PTC can set speed limits and provide other safety messages and planned detours for Waze users
  - PTC will soon start dispatching via Waze

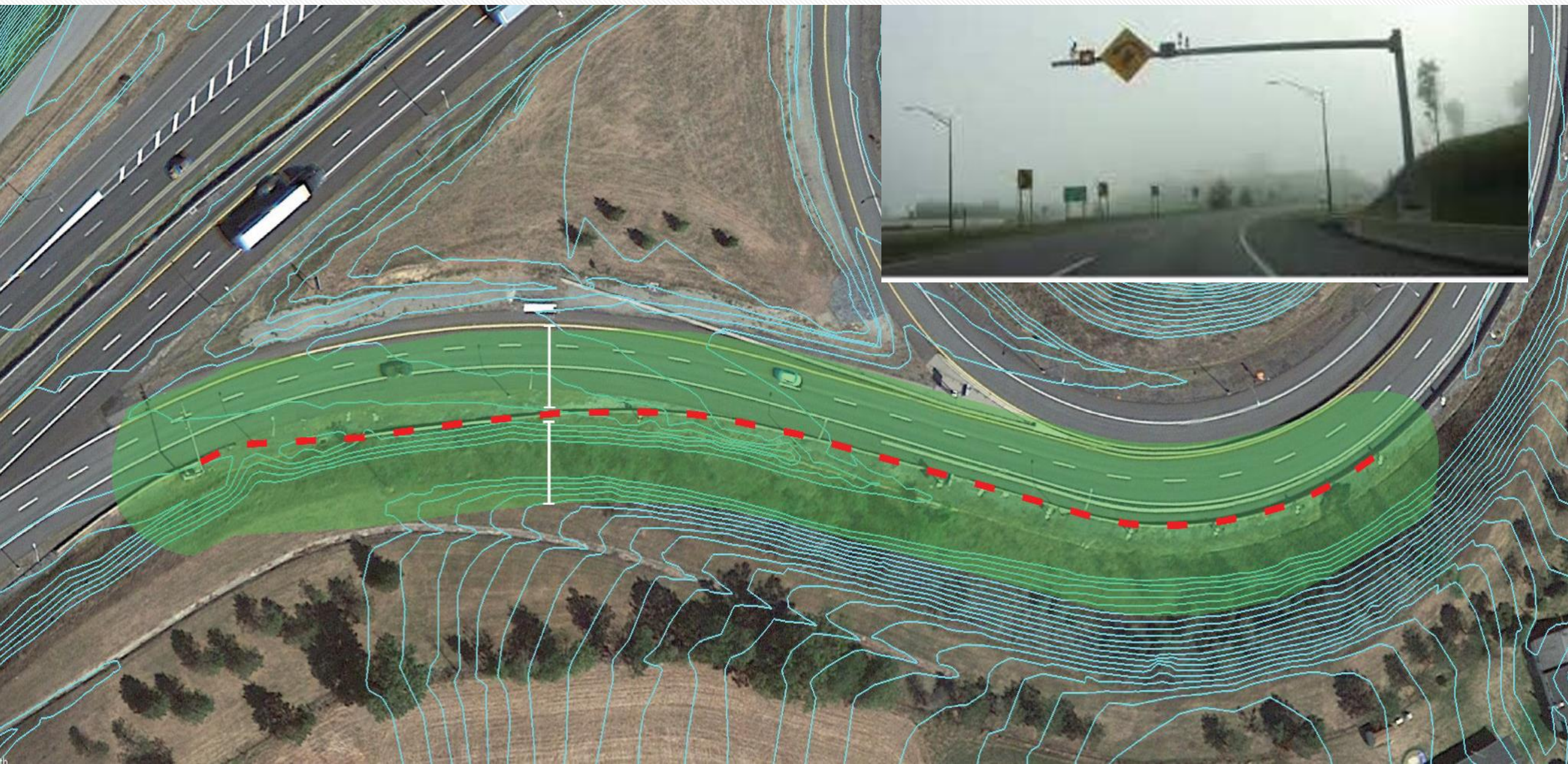
# Connected Incident Mgmt. - HAAS Alerts

Digital Alerts that go to Waze to tell drivers to Move Over for emergency vehicles that are on scene on the roadway



- Activated with light bar
- 97 vehicles hardwired and 44 portable units
- ½ mile advanced alert
- Over 1.4 Million driver alerts in the first 9 months
- Approximately \$700/year a unit/1.95 a day
- HAAS portal
  - <https://safetycloud.haasalert.com/#/dashboard/things>

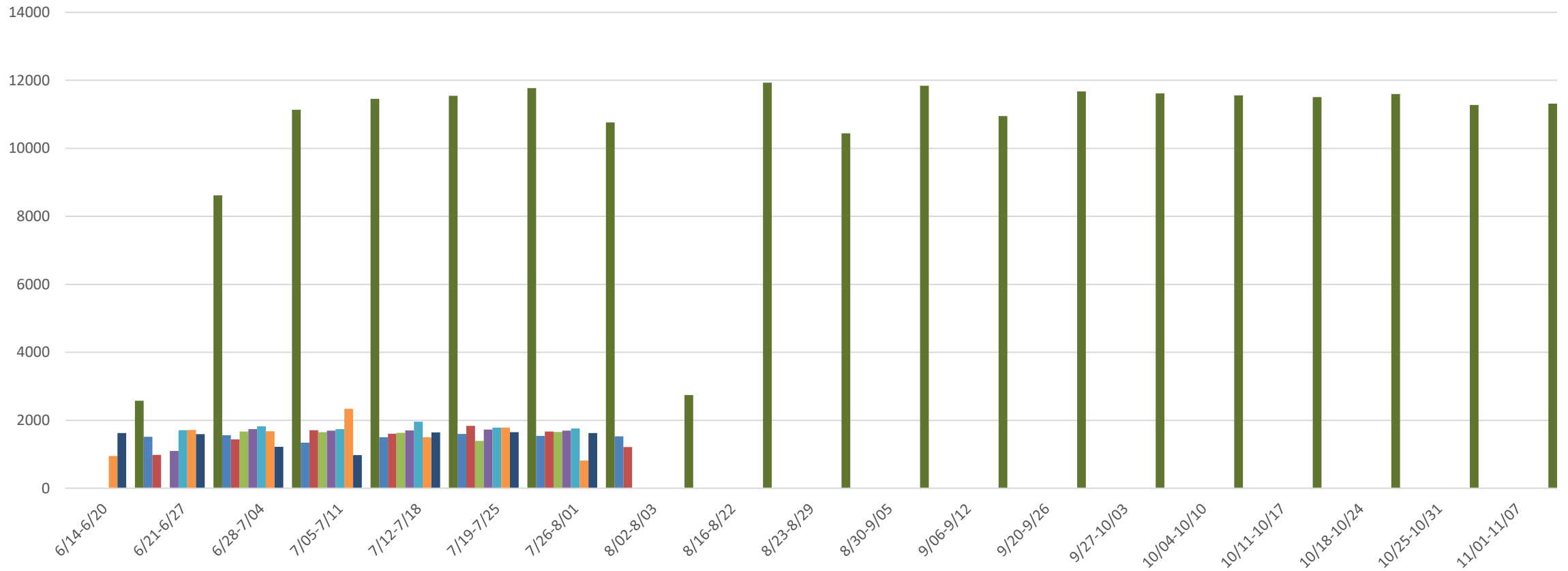
# Radiolert Curve Warning System





# RADIOLERT BROADCASTS

Chart Title



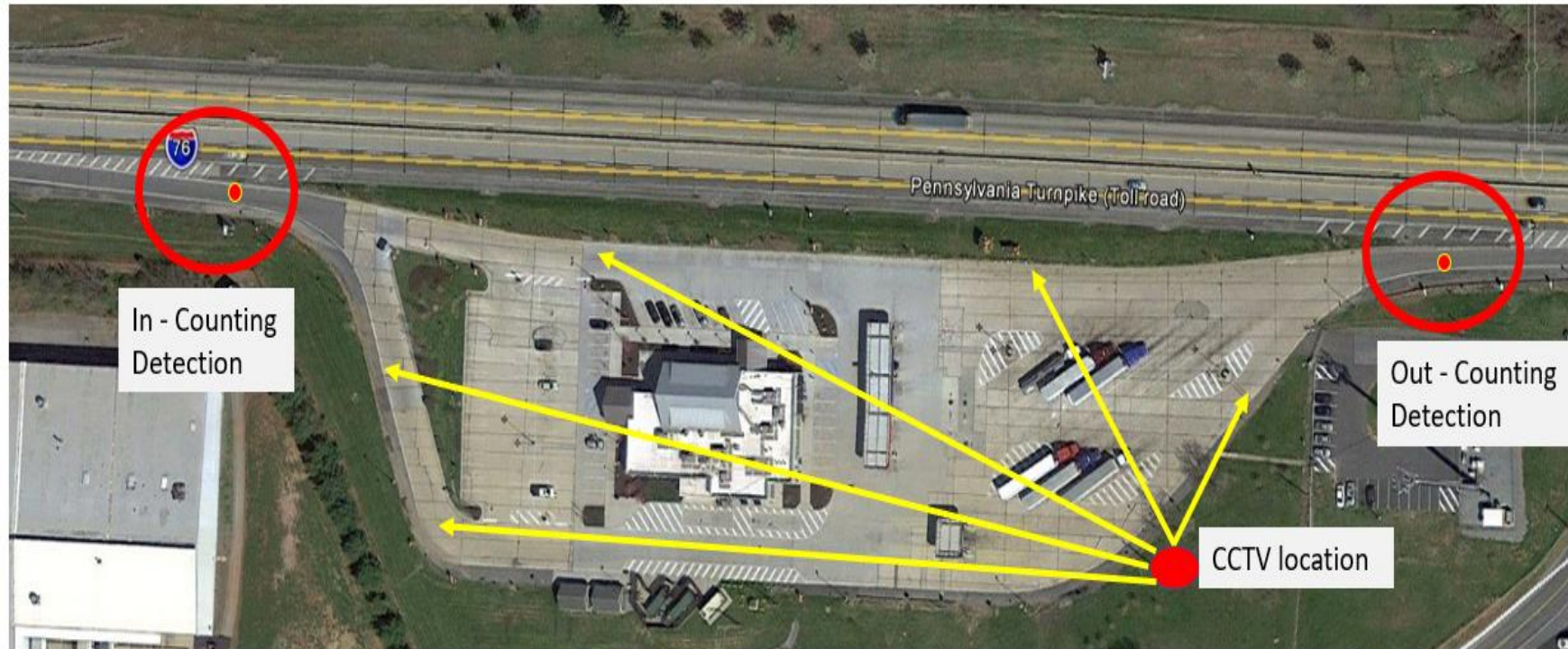




# **Truck Parking Management System (TPMS)**

# TPMS locations

## IN/OUT Detection



SIDELING HILL SERVICE PLAZA

BLUE MOUNTAIN SERVICE PLAZA

HIGHSPIRE SERVICE PLAZA

LAWN SERVICE PLAZA

BOWMANVILLE SERVICE PLAZA

PETER J. CAMIEL SERVICE PLAZA

VALLEY FORGE SERVICE PLAZA

KING OF PRUSSIA SERVICE PLAZA

ALLENTOWN SERVICE PLAZA

HICKORY RUN SERVICE PLAZA

- Design/Build - Request for Proposal
  - Base Contract: 3 - 4 years – Design, Build, and Service/Performance Period
    - Service/Performance Period – Vendor provides Software as a Service (SaaS), and maintains the detection sub-system to ensure performance requirements are met
    - Maintenance of Validation Cameras and Hybrid Message signs turned over to PTC upon final acceptance of those devices
  - Extensions: Service/Performance Period up to 3 years
    - Extensions to be considered based on success of the system and available funding (Fed funds and/or PTC funds)
- NTP was July 2020 with Construction beginning in January 2021
- Contract costs - \$ 3M

# Thank You!



**Michael Pack**

*Manager of Incident Management  
& Traffic Operations*

**Pennsylvania Turnpike Commission**

Phone: 717-831-7659

[mpack@paturndpike.com](mailto:mpack@paturndpike.com)



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# Rhode Island DOT





# Rhode Island DOT Updates

- RIDOT's Office of Communications and RIDOT's TMC (in Providence) utilize a multimedia approach for communicating traveler info to the public, and a dedicated customer service team facilitates rapid response to citizen questions/concerns
  - **Websites:** Travel Advisories (list of upcoming and ongoing scheduled lane/road closures), Current Incident list, Camera Images, Detour Maps/Routes, and Bridge Restrictions posted and updated as needed
  - **Earned Media:** Travel Advisories / press releases regularly published, and access to streaming TMC traffic camera images is enabled; both are routinely published / used by media
  - **Social Media:** RIDOT maintains/monitors accounts on Facebook & Twitter; real-time tweets are prompted by TMC Operator-entered incident info (provides 24/7/365 notification of lane blockages and other traffic impacts due to roadway incidents)
  - **Paid Media:** Normally used for safety campaigns, but occasionally used in conjunction w/ major projects
  - **E-Mail Communications:** With help of Constant Contact services, issues targeted weekly Travel Advisory e-mails outlining planned lane/road closures in the coming week
  - **Electronic Changeable Message Signs (CMS):** ~60 RIDOT CMS controlled by TMC; on projects Contractors supplement with portable CMSs as warranted
  - **511 System & HAR:** Existing systems remain in place and operational, but being phased out as public relies more and more on web apps/services





# Rhode Island DOT Updates

- *Any/all of the above means/methods used during ANY/ALL (adverse as well as “fair”) travel conditions*
  - *For adverse weather/storms, advance notification of impending storm conditions is provided where/as appropriate (e.g., recommendations to avoid non-essential travel during a storm)*
- *COVID-19 has **not** significantly changed the way we provide Traveler Information to the public*
  - *RIDOT continues to employ all the means/methods noted above*
  - *Use of teleconferencing services/software has advanced*





# Rhode Island DOT Updates

- *How is data used to make decisions about Traveler Information?*
  - *For planned lane/roadway closures:*
    - The Office of Communications considers traffic data/studies where available/warranted to help determine the extent of public outreach to provide on a particular project/operation
    - Per RIDOT's Work Zone Safety & Mobility Policy, project Designers and officials must consider what level/extent of Traveler (Public) Information strategies (e.g., a work zone ITS) are appropriate to call and/or arrange for via the project
  - *Data RE: unplanned* roadway events (incidents) is largely collected via TMC Operator manual entry of data into the RhodeWAYS incident management application/database (which prompts automated Twitter feeds, website updates, etc.)
    - CMS messages manually turned on/off and adjusted by TMC Operators as needed
    - No automated incident detection/notification/response algorithms in place, yet
  - RIDOT does a good job of recording and reporting on several TSMO-related performance measures, but to date such measures are typically "used" informally, without any formalized actions that are focused on improving the ways/means/methods with which RIDOT provides and/or facilitates Traveler Information







# Rhode Island DOT Updates

- *Emerging technology / applications*

- *Since ~2016, a Statewide CAD system (with RIDOT TMC tie-in) has been proposed & championed by police and others, but not in place yet (legislation stalled in 2020)*
- *Since 2018, as a Waze partner RIDOT has posted travel times on select CMS using the free Waze data/feed*
- *In mid-2020, RIDOT regained access to INRIX data and RITIS; these tools along with the Waze data/feed are prompting/helping us explore how we can/should improve our current processes to provide more public benefit (e.g., looking to improve efficiency via automation)*
- *Exploring the use of various private vendors/firms as well as public agency partner (e.g., RIEMA) to help us improve our (A) situational awareness and/or (B) level of public engagement*





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# Rhode Island DOT Updates

For more information, contact:

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401-563-4046

[russell.holt@dot.ri.gov](mailto:russell.holt@dot.ri.gov)





# South Carolina DOT





# What are you doing as an agency to provide information to the traveling public?

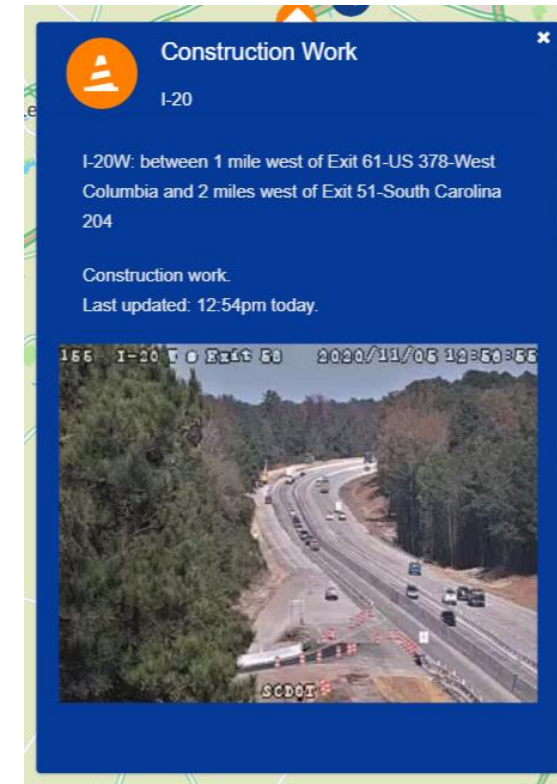
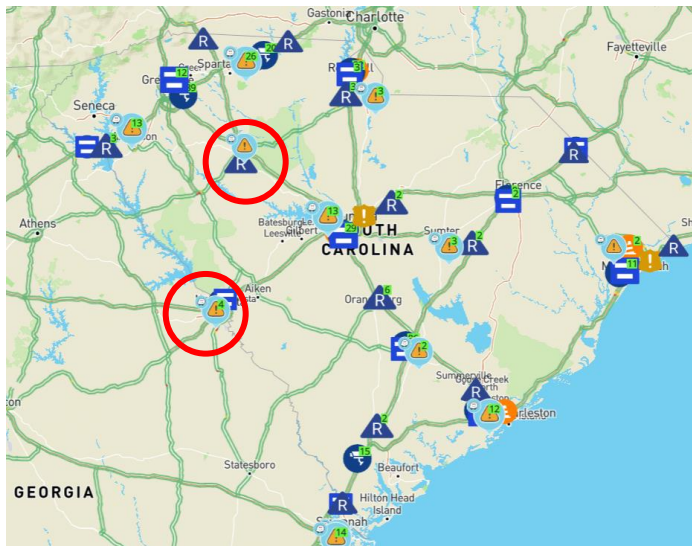
- 511 Update
  - *Modern, updated look and feel*
  - *Integrated Waze data*
  - *Smart camera features*
  
- *Smart Work Zone Project*





# What are you doing as an agency to provide information to the traveling public?

- 511 Update
  - *Modern, updated look and feel*
  - *Integrated Waze data*
  - *Smart camera features*





# What are you doing as an agency to provide information to the traveling public?

## Smart Work Zone Project

- Rural, two lane section of Interstate in the middle of the state that was being resurfaced and had daytime lane closures
- SCDOT worked with the traffic control contractor to install a smart work zone system to alert drivers of slow/stopped traffic ahead and suggest an alternate route
  - *Sensors placed every 0.5 miles to collect speed*
  - *Message boards placed prior to the lane closure and before the alternate route*
  - *ALL alternate routes were signed with static signs (9 intersections, 205 signs)*





# What are you doing as an agency to provide information to the traveling public?

## Taper Signs

<b>DEFAULT</b>		<b>SLOW</b>		<b>STOP</b>
###		<b>SLOW TRAFFIC XX MILES</b>		<b>STOPPED TRAFFIC XX MILES</b>
	###		###	

*Two signs before each lane closure – one 4-5 miles before and one 2-3 miles before*

## Alternate Route Signs

<b>DEFAULT</b>		<b>TT &gt; 2 x FF</b>
<b>EXIT 60 8 MILES YY MIN</b>		<b>STOPPED TRAFFIC AHEAD</b>
	###	
		<b>ALT ROUTE EXIT 54</b>
	###	

*Travel time thresholds were adjusted during the project*





# South Carolina Department of Transportation

For more information, contact:

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(803) 737-1165

[dickersotm@scdot.org](mailto:dickersotm@scdot.org)

Jennifer Rhoades

(803) 737-1622

[rhoadesjo@scdot.org](mailto:rhoadesjo@scdot.org)







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# Tennessee DOT





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# Vermont AOT





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# Virginia DOT



# TRAVEL INFORMATION ROUNDTABLE MEETING

VDOT Response

Scott Cowherd/Crystal Underwood

11/19/2020

# What are you doing as an agency to provide information to the traveling public?

- o **VDOT's Operations division** is providing real-time traveler information through a public IVR, Customer Service Center 800 number, Website, mobile app collectively known as Virginia 511 and Waze, DMS /DDMS signage.
- o **VDOT's communications team** actively engages citizens through social media outlets such as YouTube, Twitter, Facebook, NextDoor and other project related outreach websites. VDOT provides community outreach and communications on many large projects such as the I-81 Improvement program and the HRBT expansion project. VDOT partners with local news agencies and has communications liaisons in each of the (9) VDOT districts / (5) Regional Transportation Operations Center (TOC) to assist with messaging management. VDOT utilizes local news and radio stations when needed to disseminate information about road closures, major traffic changes/ projects and inclement weather effects.

# Is there a unique or emerging technology that you are using or considering using to provide Traveler Information to the public?

- o VDOT is seeking innovation to the current Virginia 511 program through expanded communications directly with the public through the use of expanded app features:
  - Send out queue warnings when the public enters a geo-located zone.
  - Warning/ push notifications will provide particular messages that are relevant to that area.
  - Requiring hands free features of the new app to work with manufacturer infotainment systems. This requirement will satisfy multistate and locality laws/ordinances for hands-free phones down safety measures.
- o Other areas being evaluated within VDOT are improving Traveler Safety and information through:
  - Connected worker “Smart Vest” invention that has sensors and will connect to an app. The app will alert drivers entering a work zone that there are workers present through a push notification. This is a grant funded venture with several other partners: [https://safed.vtti.vt.edu/wp-content/uploads/2020/07/03-050\\_FinalResearchReport\\_Final.pdf](https://safed.vtti.vt.edu/wp-content/uploads/2020/07/03-050_FinalResearchReport_Final.pdf)
  - I-Cone-integrating work zone data directly to navigation systems and in-dash of connected cars.

# How is Virginia dealing with unknown incident duration - how do you handle incidents when you really don't know the end time

## o VDOT Operations:

- 5 TOC operators maintain reporting in real-time.
- ATMS system requires a end time to close.
- All incidents are considered active until closed.
- Final notification may come from Safety Service Patrol (SSP) coverage and/or VSP integrated CAD feed
- Transmission of real time incident data 24/7
- Closing out the incident happens when we can confirm the scene is clear and traffic flow has returned to normal.
- After-action meetings are held on extended incidents. Performance measurements are developed tracking lane impact, scene impact (meaning, including the time it's on the shoulder) and then total impact (which includes residual delays).

## o Towing and Recovery Incentive Program (TRIP)

- “On December 15, 2017, VDOT’s Richmond District began a pilot
- Tow companies receive a monetary bonus for clearing commercial vehicle crashes within 90 minutes.
- TRIP’s key objective: facilitation of quick and safe clearance of commercial vehicle crashes through improved towing standards, procedures, and training.
- 2019 study showed
  - top 61 incidents in the before period vs. TRIP incidents were analyzed, the average roadway clearance time (RCT) showed a statistically significant improvement of 62 minutes per TRIP activation and the average towing response time (TRT) improved by 7 minutes per TRIP activation.”  
[http://www.virginiadot.org/vtrc/main/online\\_reports/pdf/20-r11.pdf](http://www.virginiadot.org/vtrc/main/online_reports/pdf/20-r11.pdf)

# Additional Q/A

- Has the COVID pandemic changed the way you are providing Traveler Information to the public?
  - The pandemic has not had significant impacts to the way we provide Traveler Information to the public. We supported DMS messaging campaigns when statewide restrictions were in place.
- Are you using data to make decisions about Traveler Information?
  - Yes- Using INRIX data
    - Travel speed layer on our 511 website.
    - Statewide Directional DMS signs (DDMS) for comparable travel times (TT) for two different roadways to the same location
    - DMS signs providing travel times to a specific location.
    - INRIX analytics through the use of Maryland CATT Lab tools for research.
- Are you using third party vendors to disseminate Traveler information and if so who and how are you doing it?
  - Iteris is our current prime contractor for the Virginia 511 system:
    - 511 website, app, twitter accounts, SMS/ email subscription messages and IVR.



# Contact Information

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# Wrap Up



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# THANK YOU!

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