

Drivewyze[®]

Smart Roadways

Safer Roads Utilizing Connected Truck Technology

CMVs have a BIG Impact on Safety & Mobility



On the Rise:

- Fatal crashes involving large trucks
- Work zone and end of queue crashes
- CMVs impact on pollution, emissions

At the same time:

- Increased demand on freight, distribution, supply chain
- Freight volumes projected to increase

CMVs in Tennessee



More through trucks utilize roadways in Tennessee than any other state.

The state also has the sixth-most ton miles of truck shipments in the country.

Drivewyze Vision Zero

A safe and efficient commercial vehicle transportation system with ZERO crashes and ZERO fatalities.



ITS History in Tennessee



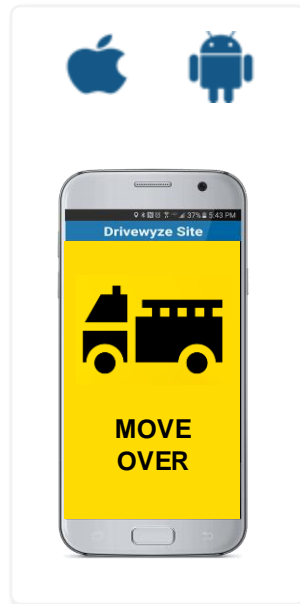
“Objective: Reduce the number of fatalities and serious injuries linked to work zones and congested roadway conditions.”

The Drivewyze Connected Truck Network

ELD (Electronic Logging) Partners




Free Driver App



Always-On Applications for CMV Drivers


Drivewyze[®]
PreClear

North America's largest weigh station bypass service



Drivewyze[®]
Smart Roadways

Proactive CMV safety alerts

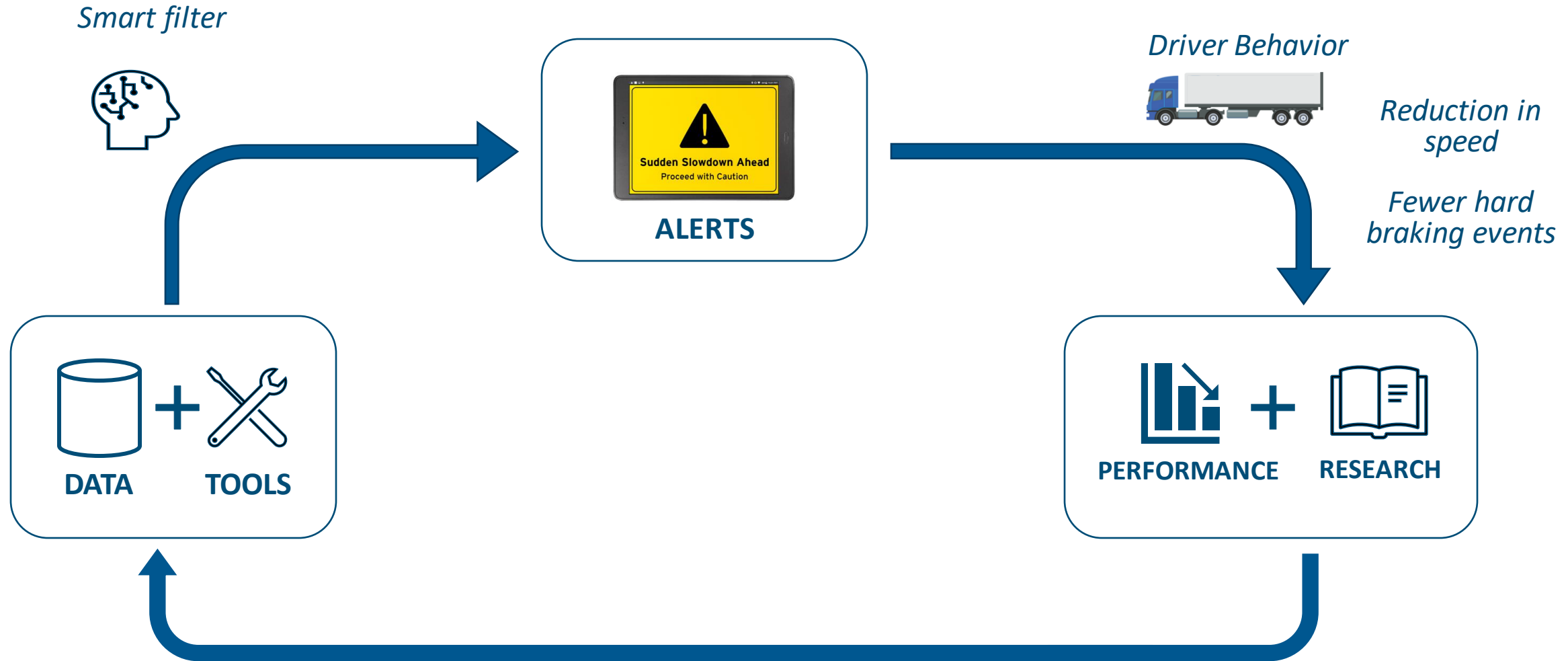


ITS History in Tennessee



Action: Explore technology-based solutions to improve safety for motorists and road workers in active temporary work zones.

How Drivewyze Smart Roadways Works



History of Traveler Information Systems



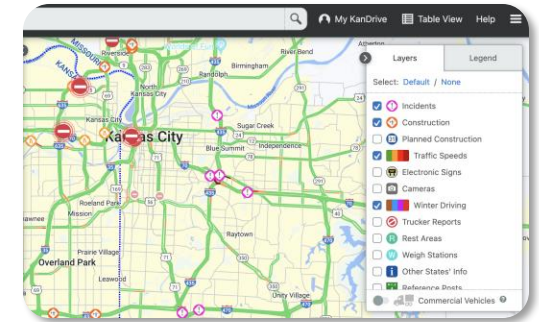
PHONES



AM RADIO



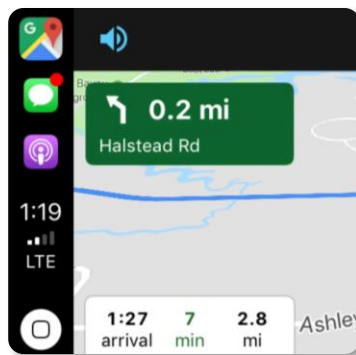
ROADSIDE SIGNS



WEBSITES



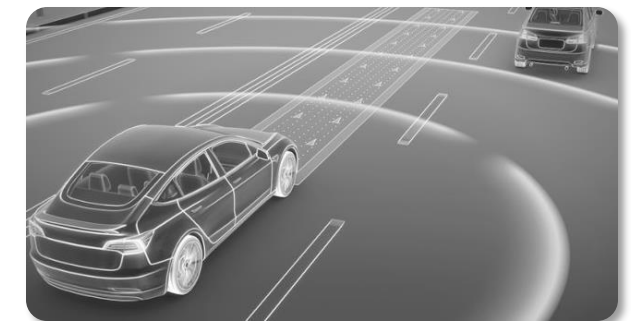
APPS



IN-VEHICLE



IN-CAB



CONNECTED VEHICLES

ITS History in Tennessee



“TDOT and many municipalities within the state have made great efforts to develop and expand their Intelligent Transportation Systems (ITS) assets to allow for better management of their roadway networks and active work zones.”

Action: Explore various ITS strategies to make travel through and around work zones and congested areas safer and more efficient.

Smart Roadways Types of Alerts

Data Driven Alerts



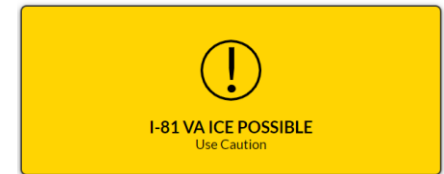
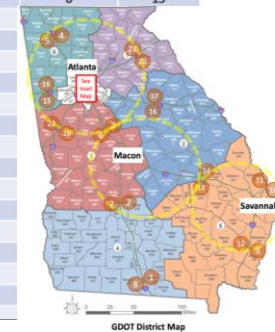
Traffic Congestion

Work Zones
Lane Closures

Roadside Worker
Safety

Manual Alerts

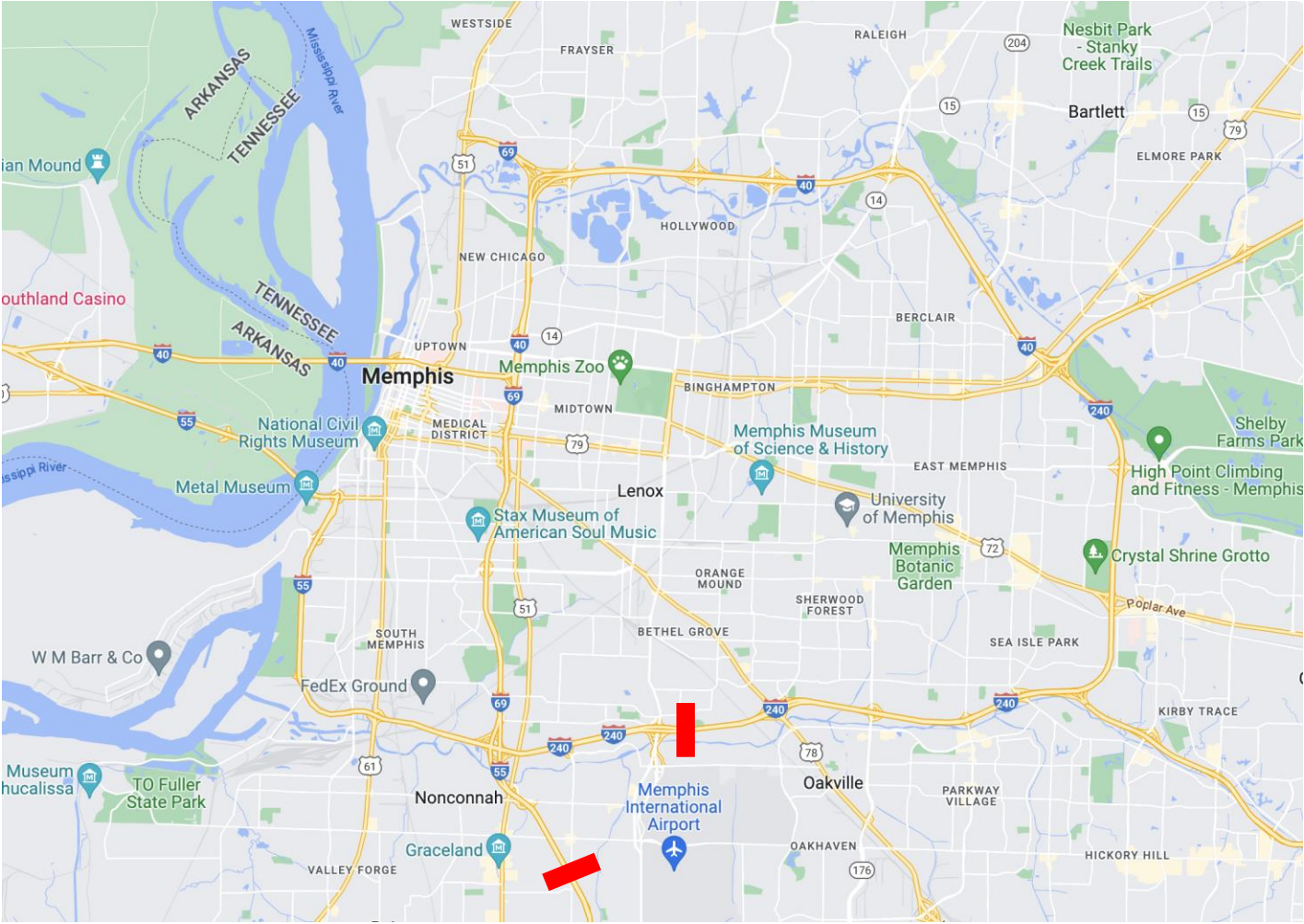
Notification Polygon Location	District	Milepost
I-75 Northbound	1	4
I-75 Northbound	2	8
I-75 Northbound	3+4 boundary	105
I-75 Northbound	3	203
I-75 Northbound	4	323
I-75 Southbound	5	6
I-75 Southbound	6	323
I-75 Southbound	3	203
I-75 Southbound	7	3+4 boundary
I-75 Southbound	8	105
I-75 Southbound	4	8
I-95 Northbound	9	5
I-95 Northbound	10	45
I-95 Northbound	5	110
I-95 Southbound	11	5
I-95 Southbound	12	110
I-95 Southbound	5	45
I-16 Eastbound	13	2+5 boundary
I-16 Westbound	14	93
I-20 Eastbound	15	2+5 boundary
I-20 Eastbound	6	93
I-20 Westbound	16	15
I-20 Westbound	17	
I-20 Westbound	18	
I-85 Northbound	19	
I-85 Northbound	20	
I-85 Southbound	21	
I-85 Southbound	22	
Atlanta Metro Area		
I-285	23	
I-285	24	
I-285	25	
I-285	26	
I-285	27	
I-285	28	
I-285	29	



Virtual Road Signs

Emergency Alerts

Agency Generated Alerts



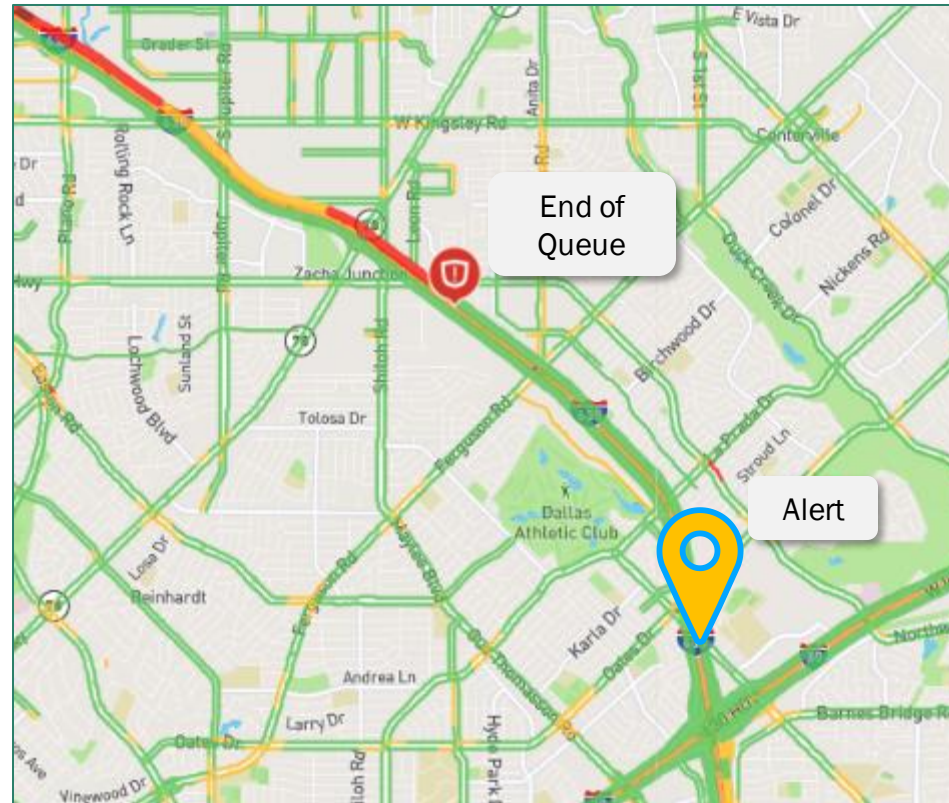
Agency Generated Alerts



Traffic and Congestion Alerts

Sudden Slowdowns

- Speeds are 35mph or more slower ahead
- Alerts ~2 miles before



Congestion

- Delay is 3 minutes or more
- Alerts ~3 mile before



Smart Roadways Products – Core Dynamic Offerings

Traffic & Congestion



Work Zones & Lane Closures



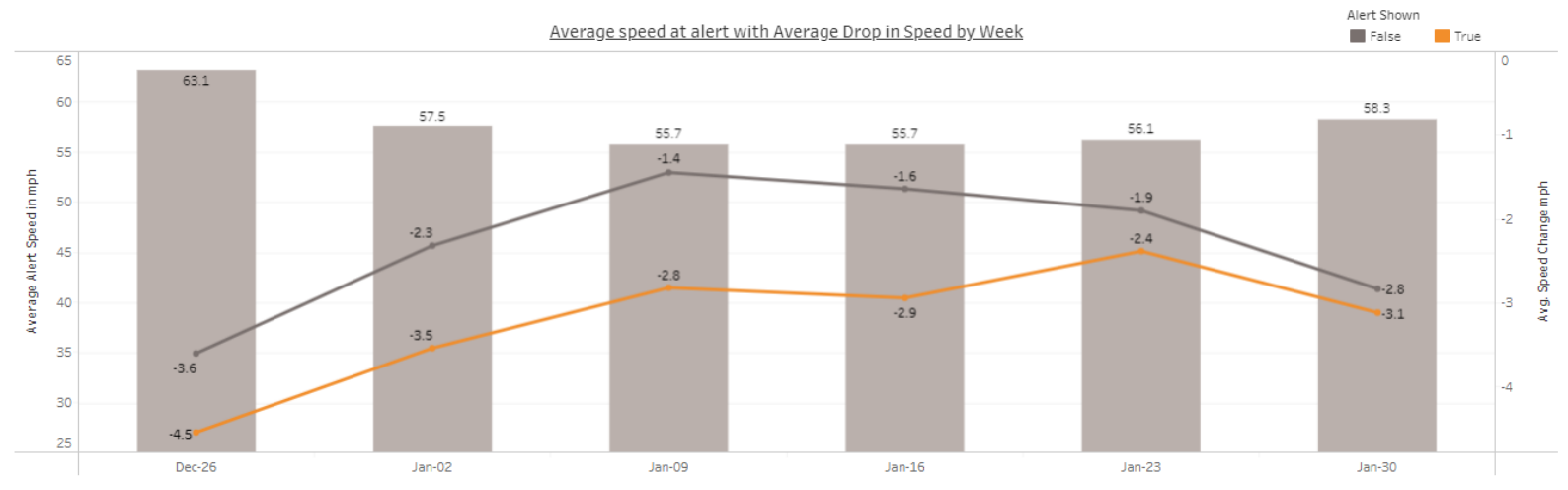
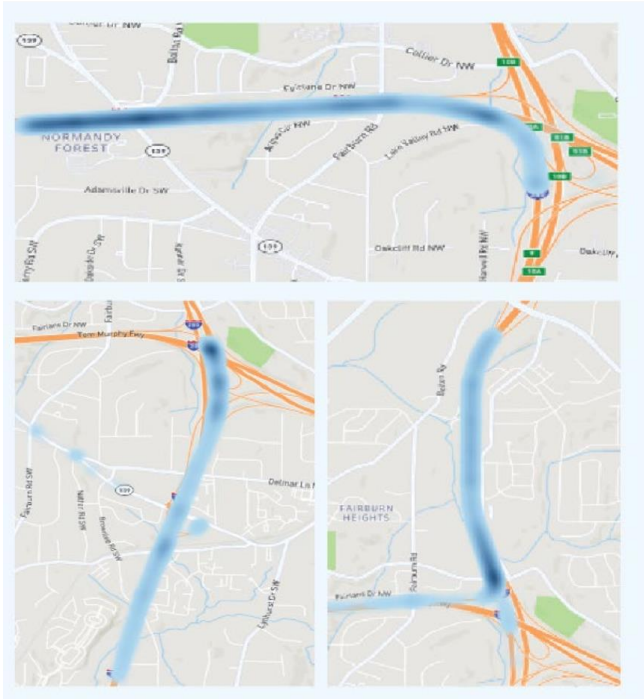
Service Vehicles



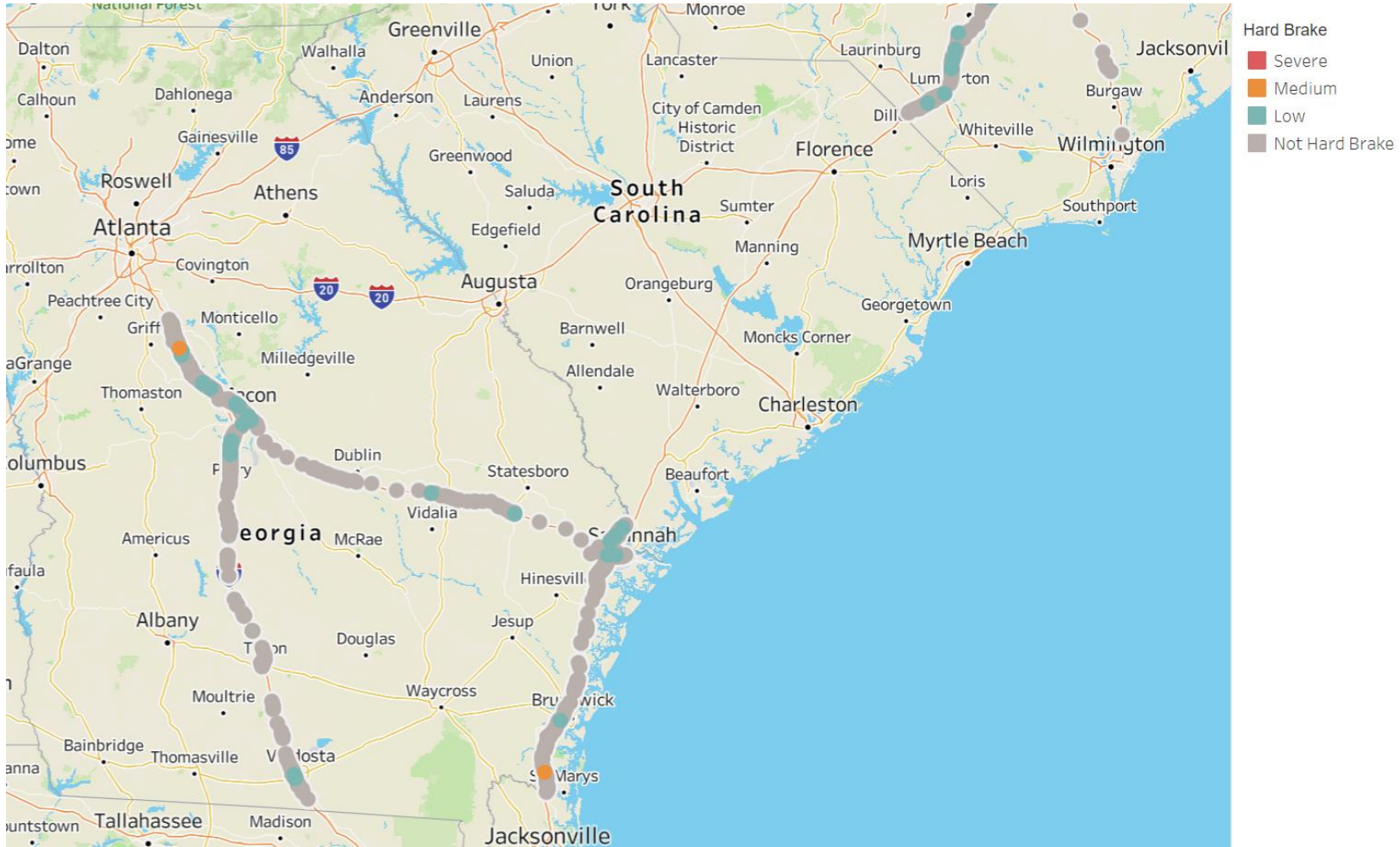
Why Alerts Matter



Observing Driving Behavior



Observing Driving Behavior



Drivewyze Safety Alerts are Proven to Improve Driving Behavior

25%
reduction in
Speeding incidents

Hard Braking was
reduced by up to

19%

Smart Roadways Effectiveness in Work Zones

70%

of alerted drivers
slow down
ahead of incident



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