The Impact of GPS on

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511 is much more than a phone service

Location of traffic incidents on the ground are interpreted into verbal descriptions so the driver can make better travel decisions without having to consult a map.

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Incident description and location comes from limited sources

A State Trooper reports a crash in a rural area.

A maintenance manager may want to alert travelers to a repaving project or;

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HIGHWAY INCIDENT RESPONSE UNIT
7318
TDOT
HELP
HIGHWAY INCIDENT RESPONSE UNIT

A State Trooper reports a crash in a rural area.

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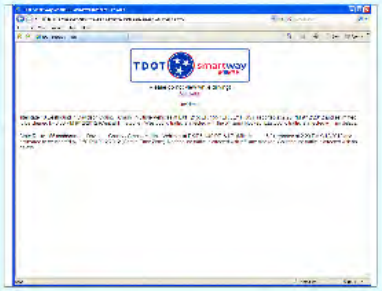
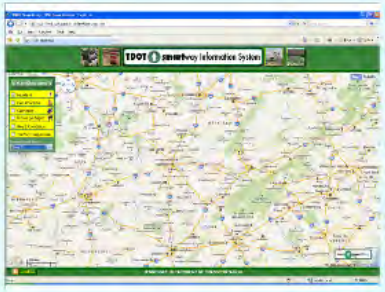
Right now, it is a one way flow of information from us to the driver

Situational awareness for the driver and TDOT are independent of each other.

Somebody tries to tell you where things are and YOU have to figure what to do about it.





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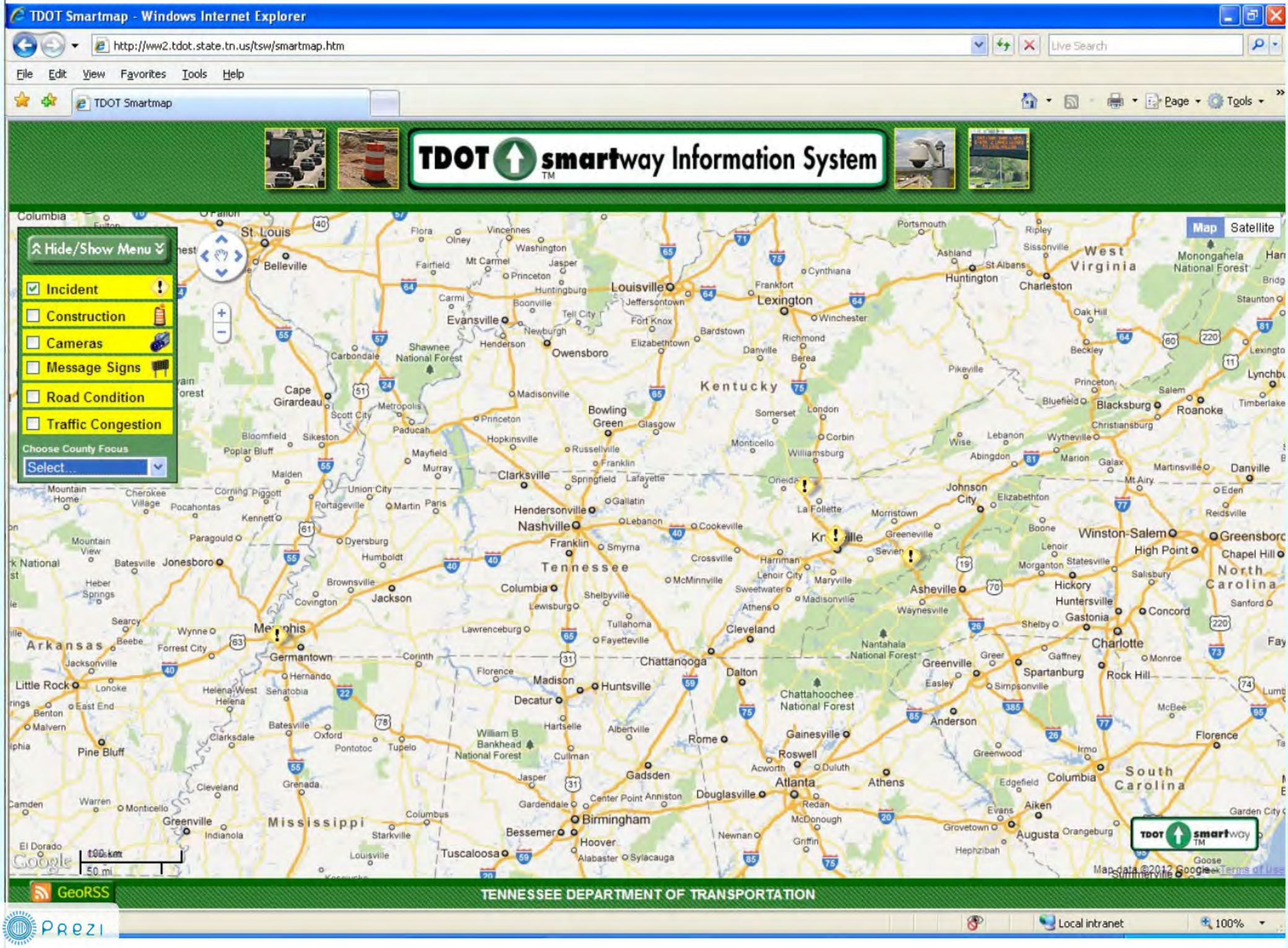
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Johnson City
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Please do not view while driving!

Statewide

Incidents

Interstate 40 westbound in Davidson County - Crash - Multiple Vehicles at EXIT 215: SR-155 / BRILEY PKWY. reported at 2:20 PM 9/12/2012 and estimated to be cleared by 3:00 PM 9/12/2012 (Central Time Zone). Westbound traffic is affected with the off-ramp blocked. Eastbound traffic is affected with no delays.

State Route 155 northbound in Davidson County - Crash - Multiple Vehicles at EXIT 6: I-40 RT. & LT. (Mile Marker: 6.8) reported at 2:20 PM 9/12/2012 and estimated to be cleared by 2:50 PM 9/12/2012 (Central Time Zone). Northbound traffic is affected with left lane blocked. Southbound traffic is affected with no delays.

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Done
Trusted sites
100%

Situational awareness for the driver and TDOT are independent of each other.

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Somebody tries to tell you where things are and YOU have to figure what to do about it.

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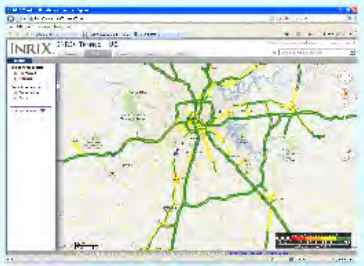
The Game is about to change and GPS will make that possible

Thanks to GPS, many drivers now know exactly where they are.

The next step is to have a two way communication between the vehicle and information services.

Numerous entities now track the GPS location of vehicles



We are approaching the point where we will know also.

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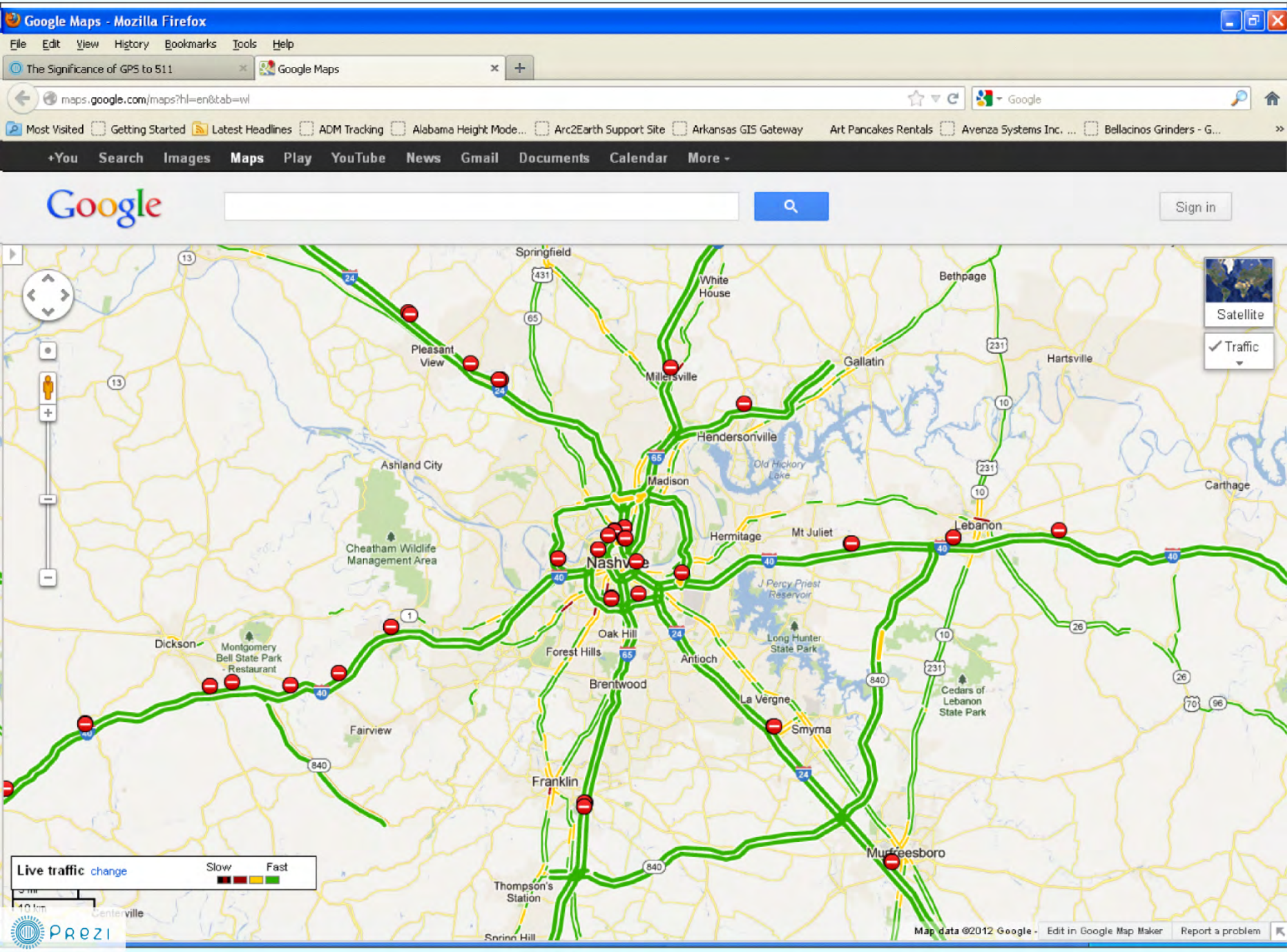
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Hartsville
Hendersonville
Old Hickory Lake
Ashland City
Madison
Carthage
Cheatham Wildlife Management Area
Hermitage
Mt Juliet
Lebanon
Nashville
J Percy Priest Reservoir
Dickson
Montgomery Bell State Park - Restaurant
Oak Hill
Forest Hills
Antioch
Long Hunter State Park
Brentwood
La Vergne
Cedars of Lebanon State Park
Smyrna
Fairview
Franklin
Murfreesboro
Thompson's Station
Live traffic change
Slow
Fast
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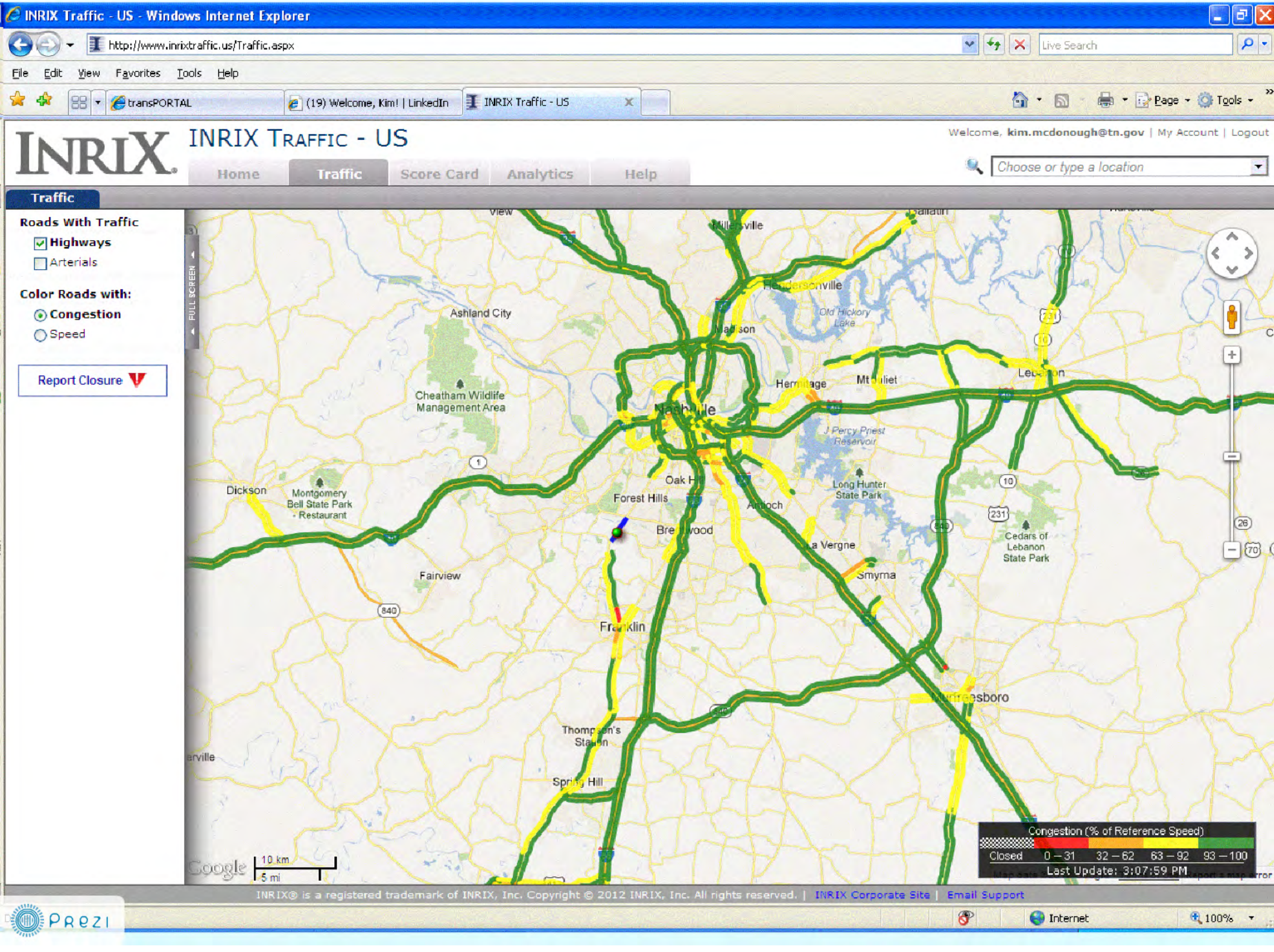
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Henderson
Ashland City
Old Hickory Lake
Madison
Hermitage
Mt Juliet
Lebanon
Cheatham Wildlife Management Area
Nashville
J Percy Priest Reservoir
Dickson
Montgomery Bell State Park - Restaurant
Oak Hill
Forest Hills
Antioch
Long Hunter State Park
Brentwood
La Vergne
Cedars of Lebanon State Park
Fairview
Smyrna
Franklin
Murfreesboro
Thompson's Station
Spring Hill
Congestion (% of Reference Speed)
Closed
0 – 31
32 – 62
63 – 92
93 – 100
Last Update: 3:07:59 PM
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5 mi
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The next step is to have a two way communication between the vehicle and information services.

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Companies such as Onstar are beginning to do this.

And TDOT already publishes all traffic data in the public domain and it is used by numerous services

The next logical step is to capture information

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And TDOT already publishes all traffic data in the public domain and it is used by numerous services

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The next logical step is to capture information from the vehicle and convey that to traffic management

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We want to capture positional and environmental data from the car and use that just like other traffic detectors

Sort of a crowd sourcing for traffic flow data.

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Sort of a crowd sourcing for traffic flow data.

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And it is only possible because of GPS

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