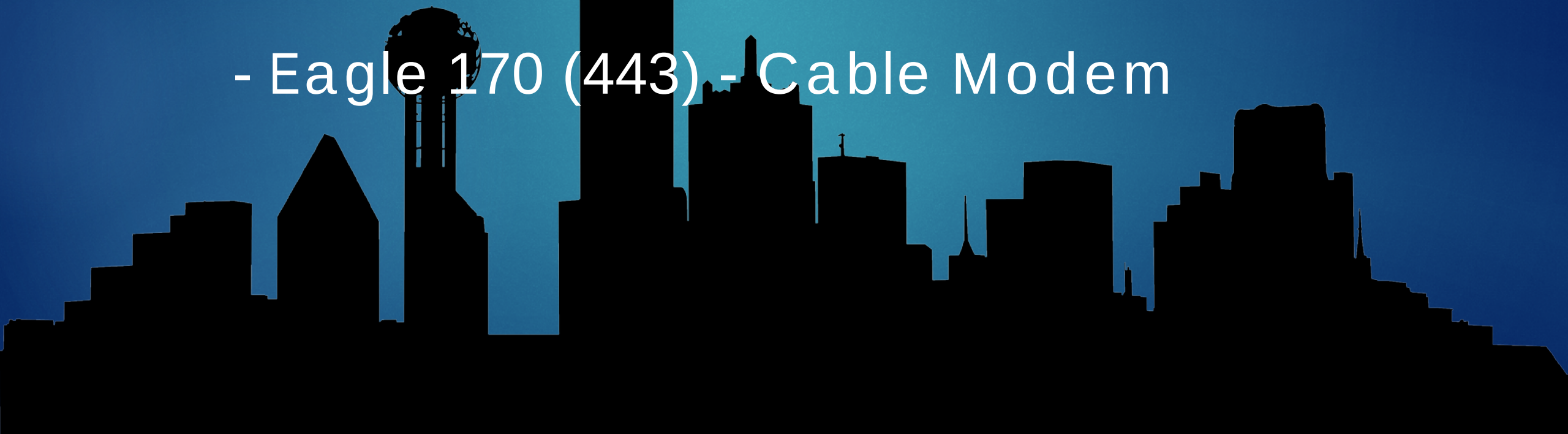
City of Dallas

Big things are happening here

Current Hardware

1383 Signalized Intersections

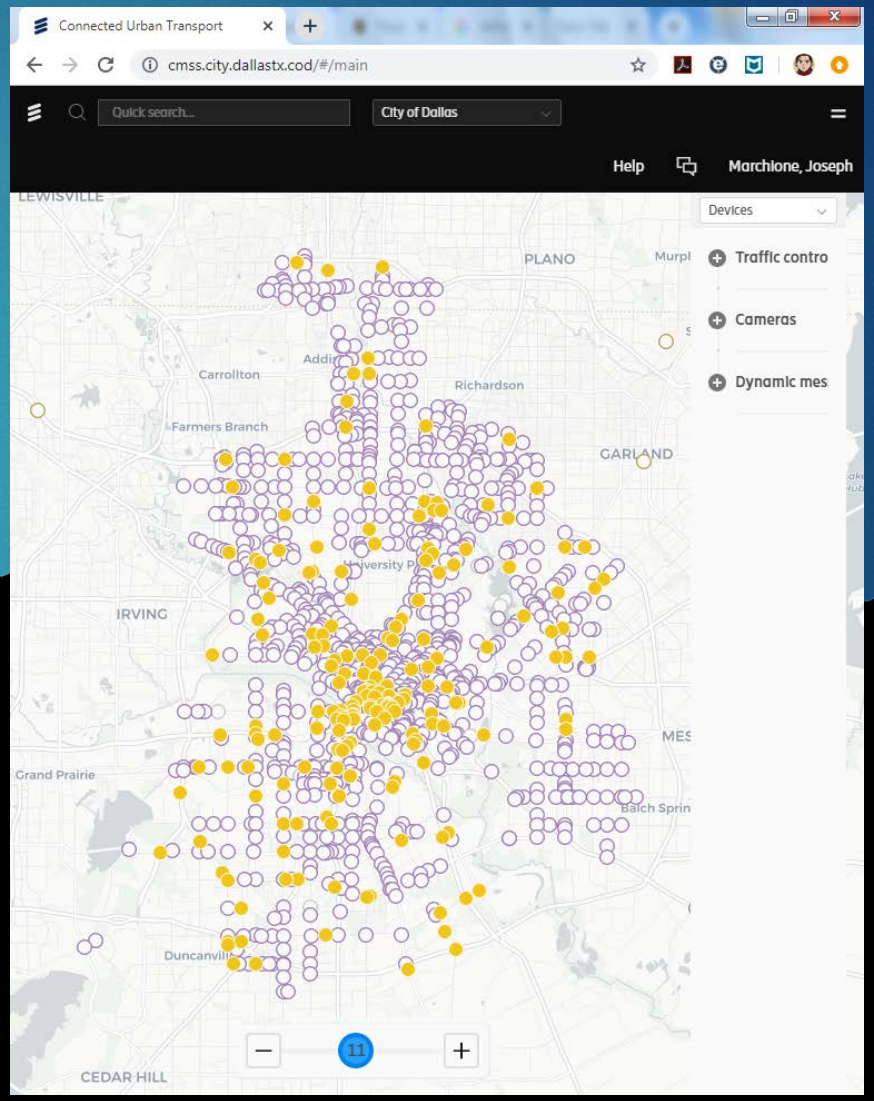
- Intelight 2070 (940) - Cell modems
- Eagle 170 (443) - Cable Modem



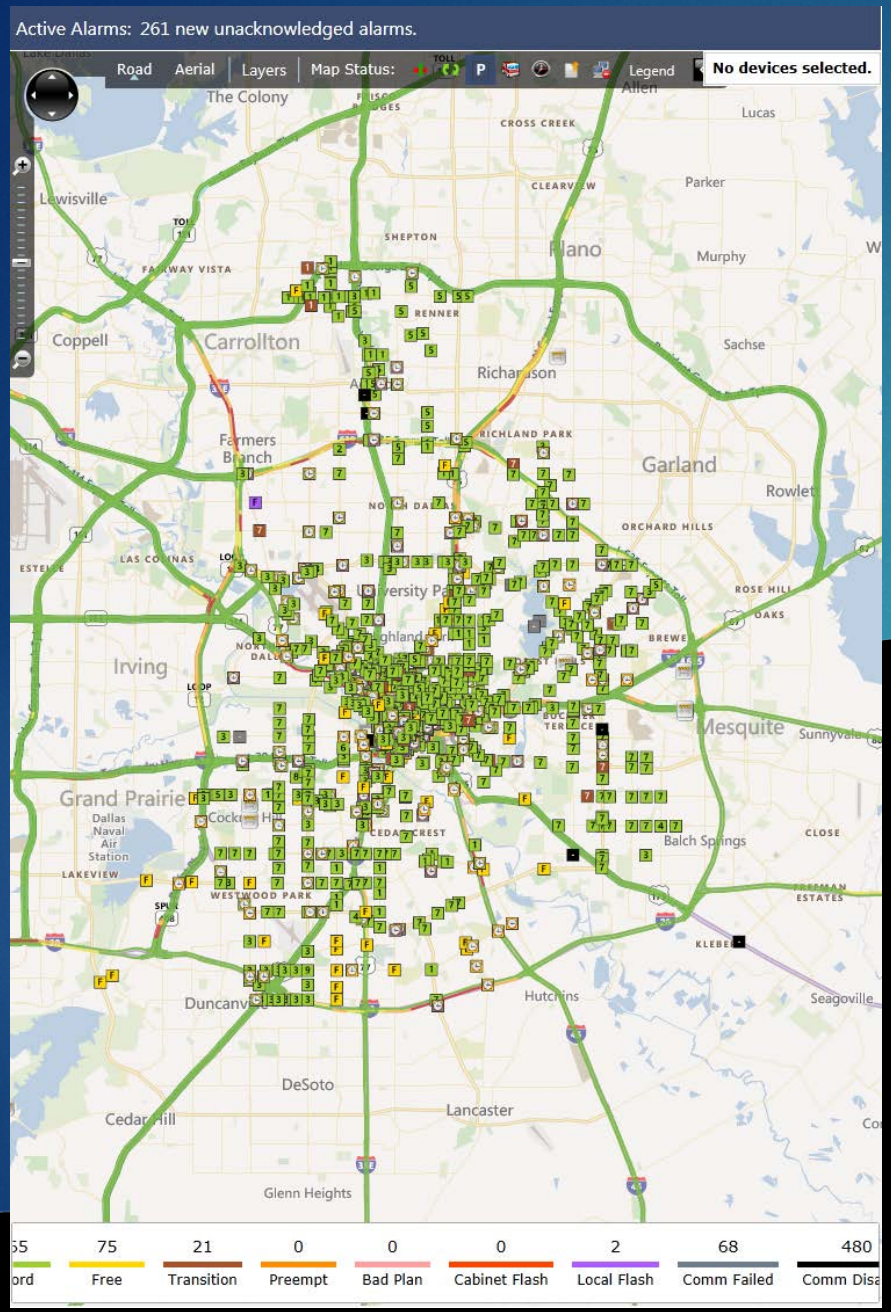
Current ATMS

Ericsson Gui

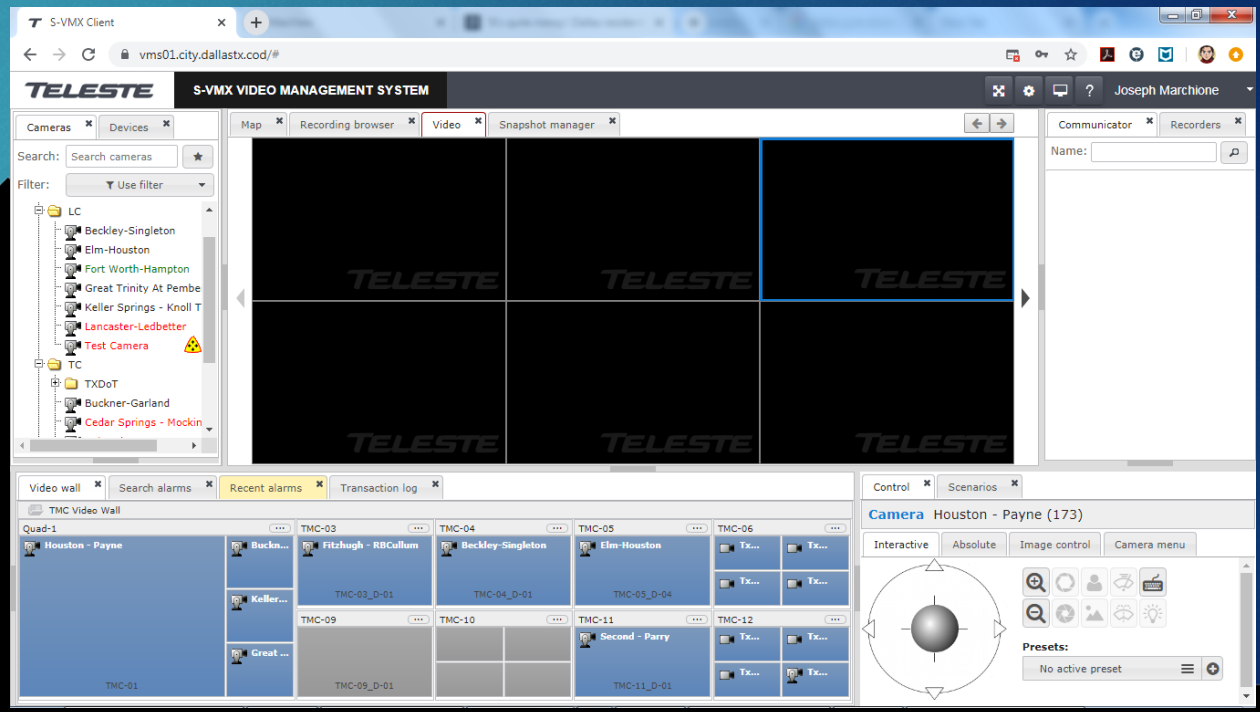
- TMS - Maxview
- VMS - Teleste
- AMS - Maximo



Maxview



Teleste



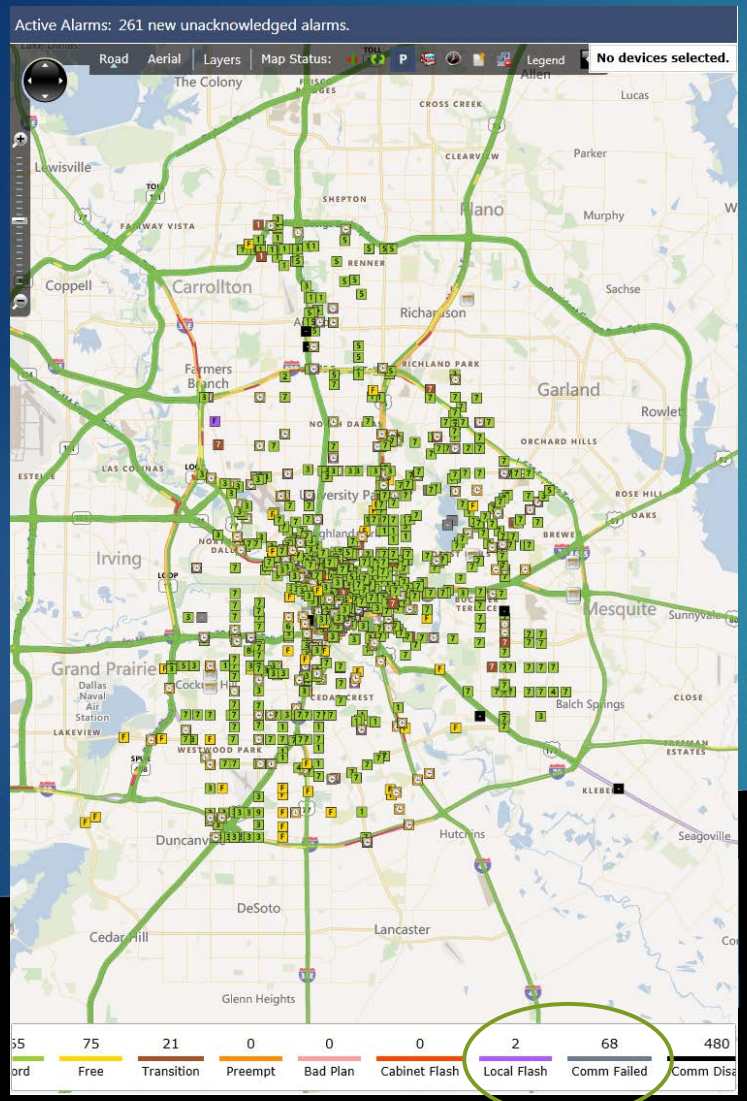
June 9, 2019

June Wind Storm

- 60+ MPH winds
- 450,000 residents lost power
- Estimated 600-800 signals went to flash

How do you deal with that??

June Wind Storm

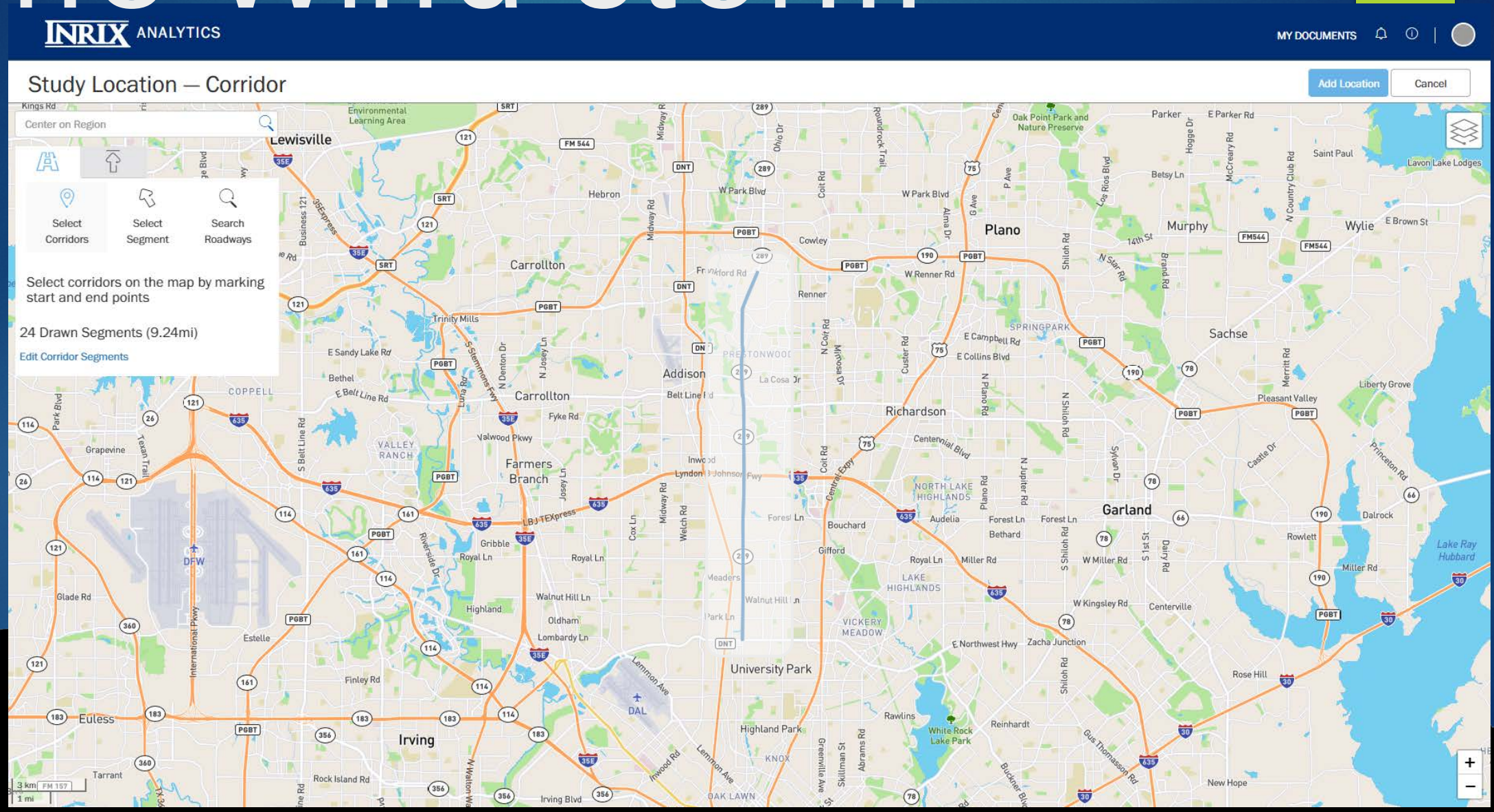


- Maxview used to identify outages

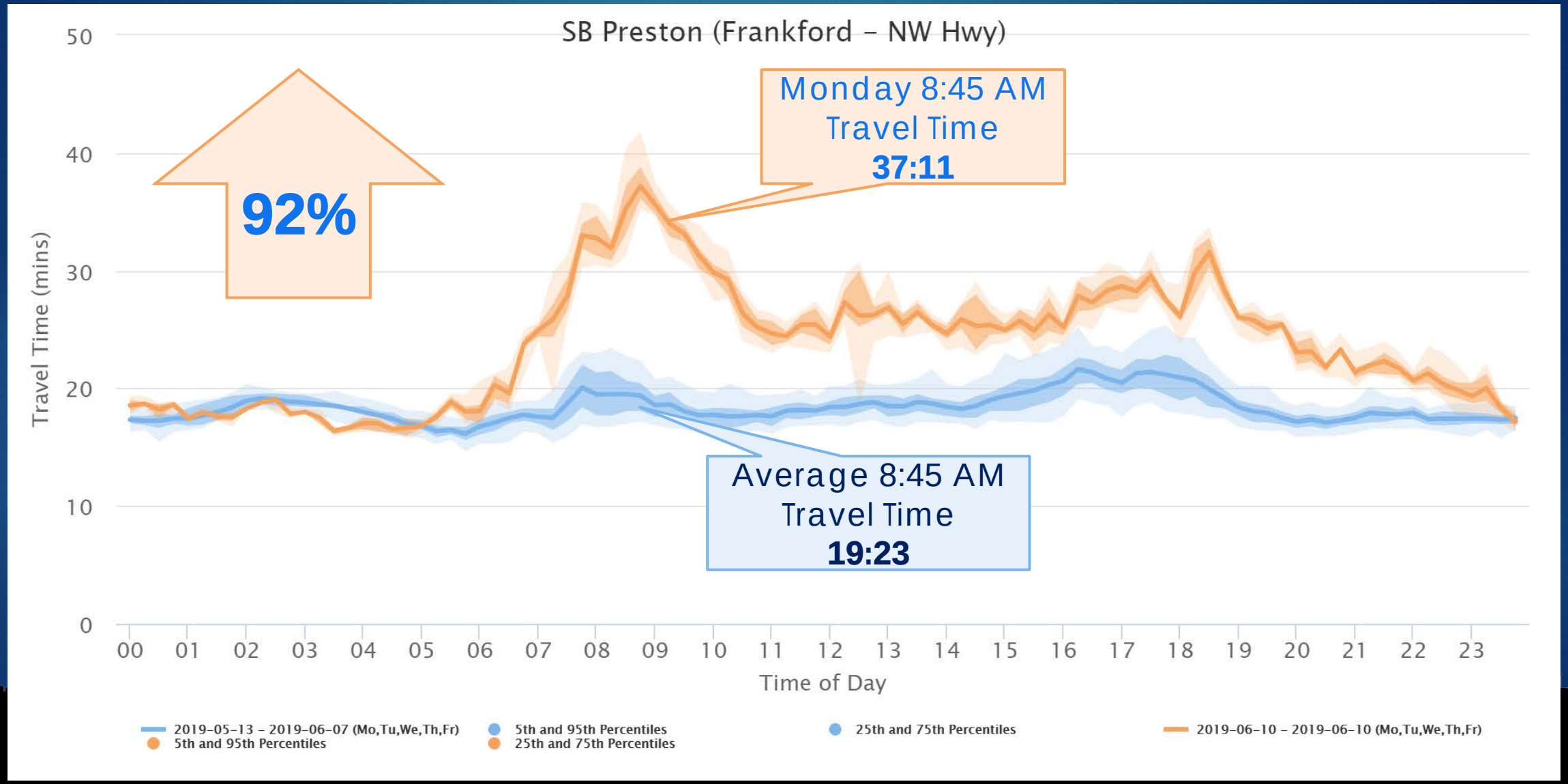
- Followed power outages/ restorations

- Worked with shop and Engineers to clear flash calls

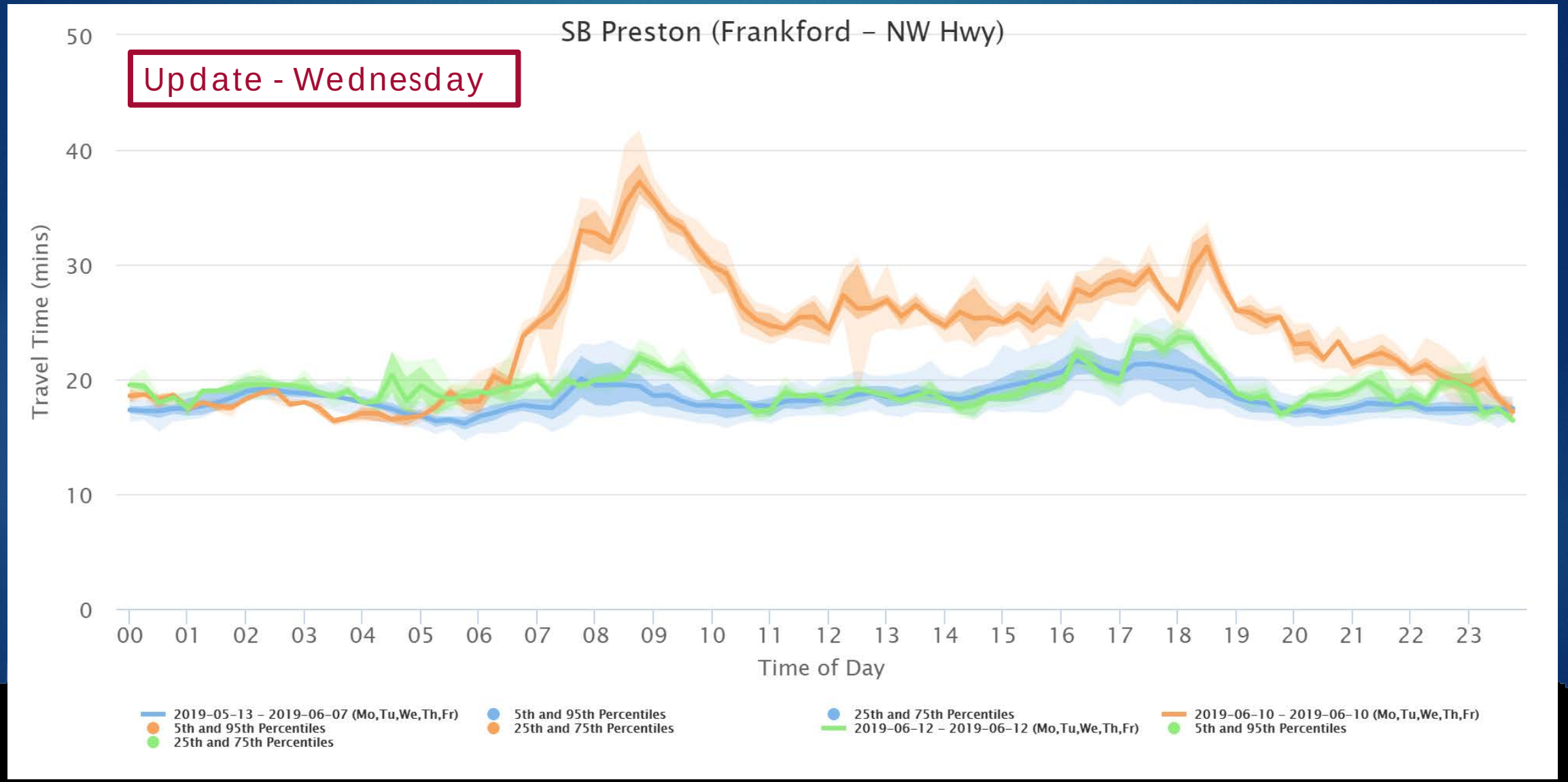
June Wind Storm



June Wind Storm



June Wind Storm



June Wind Storm

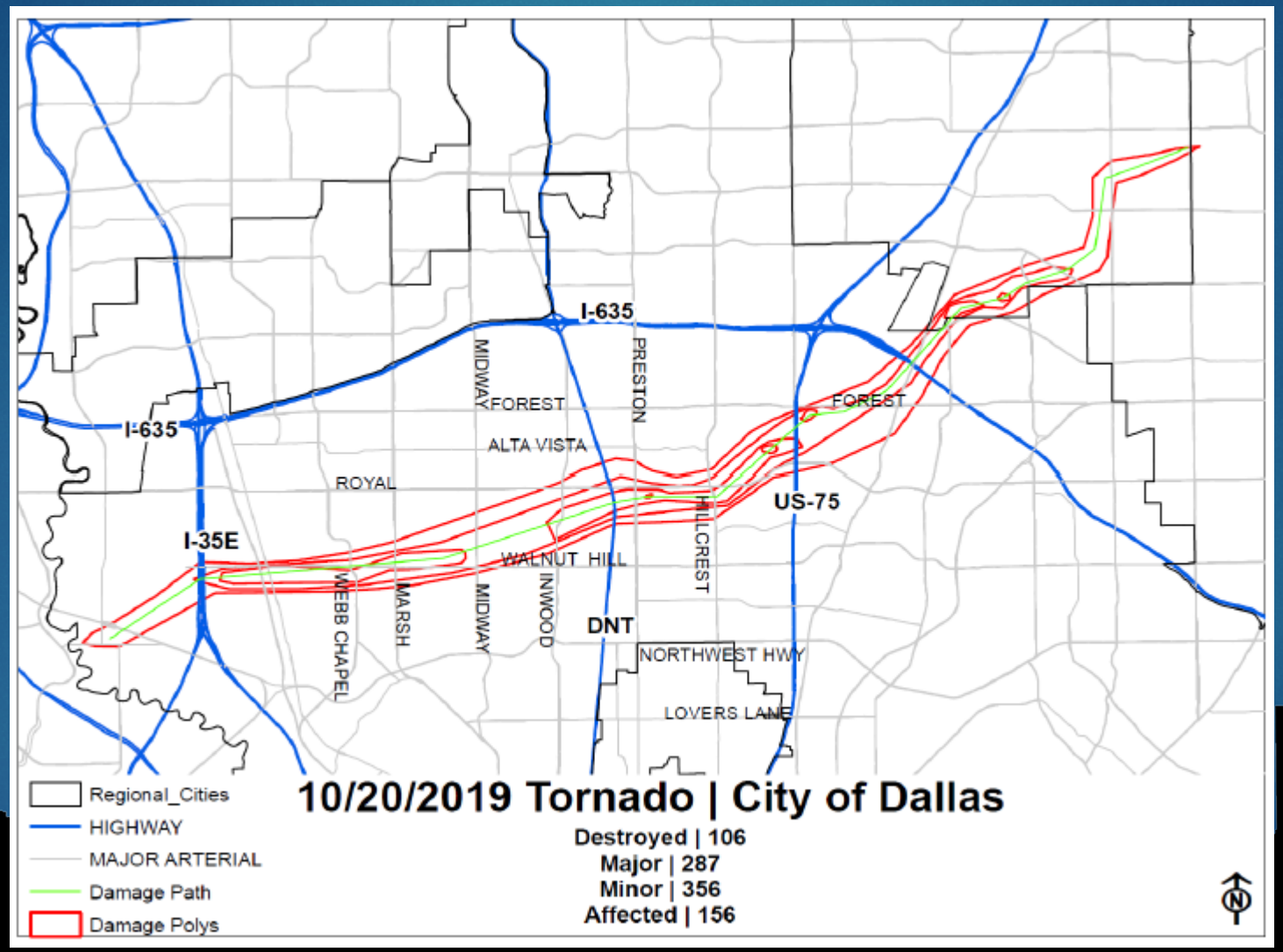
Lessons Learned

- ATMS helped spot problem areas
- All hands on deck
- Shop/Engineers communication needed

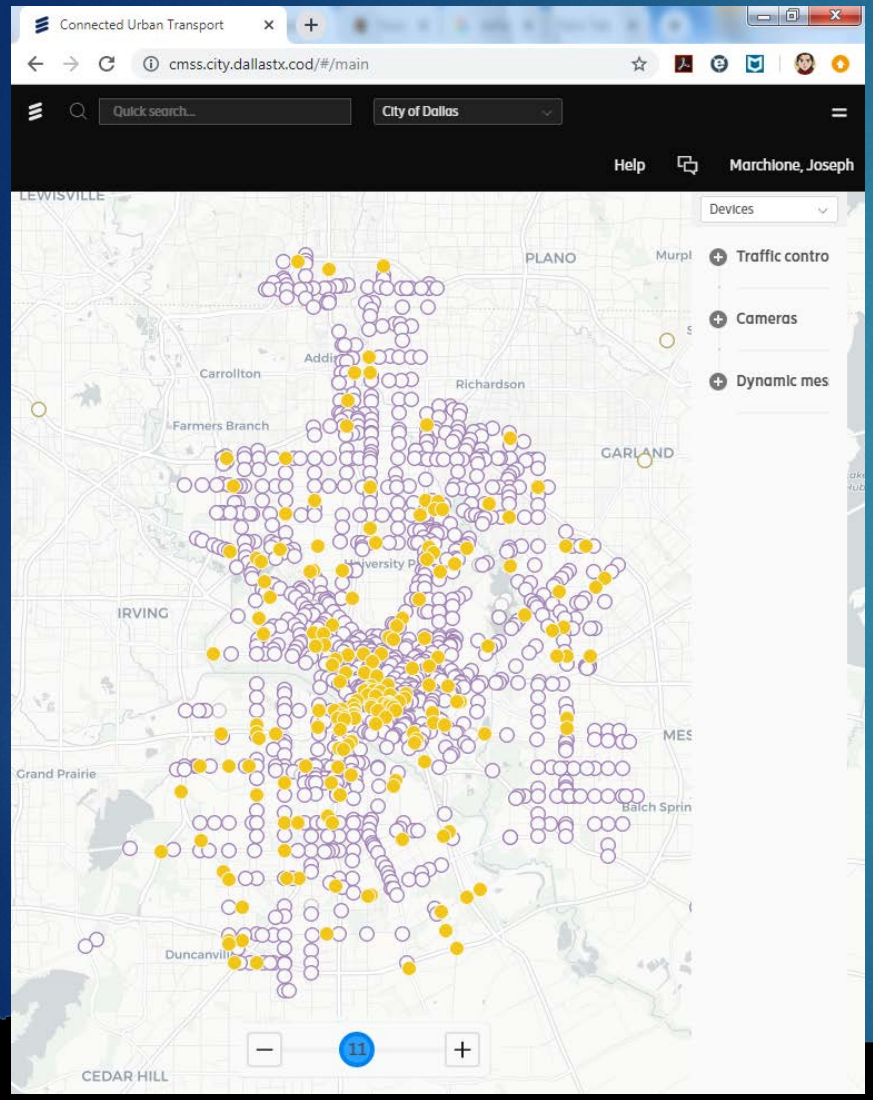
Overall Good Job

Uh oh

Dallas Tornado



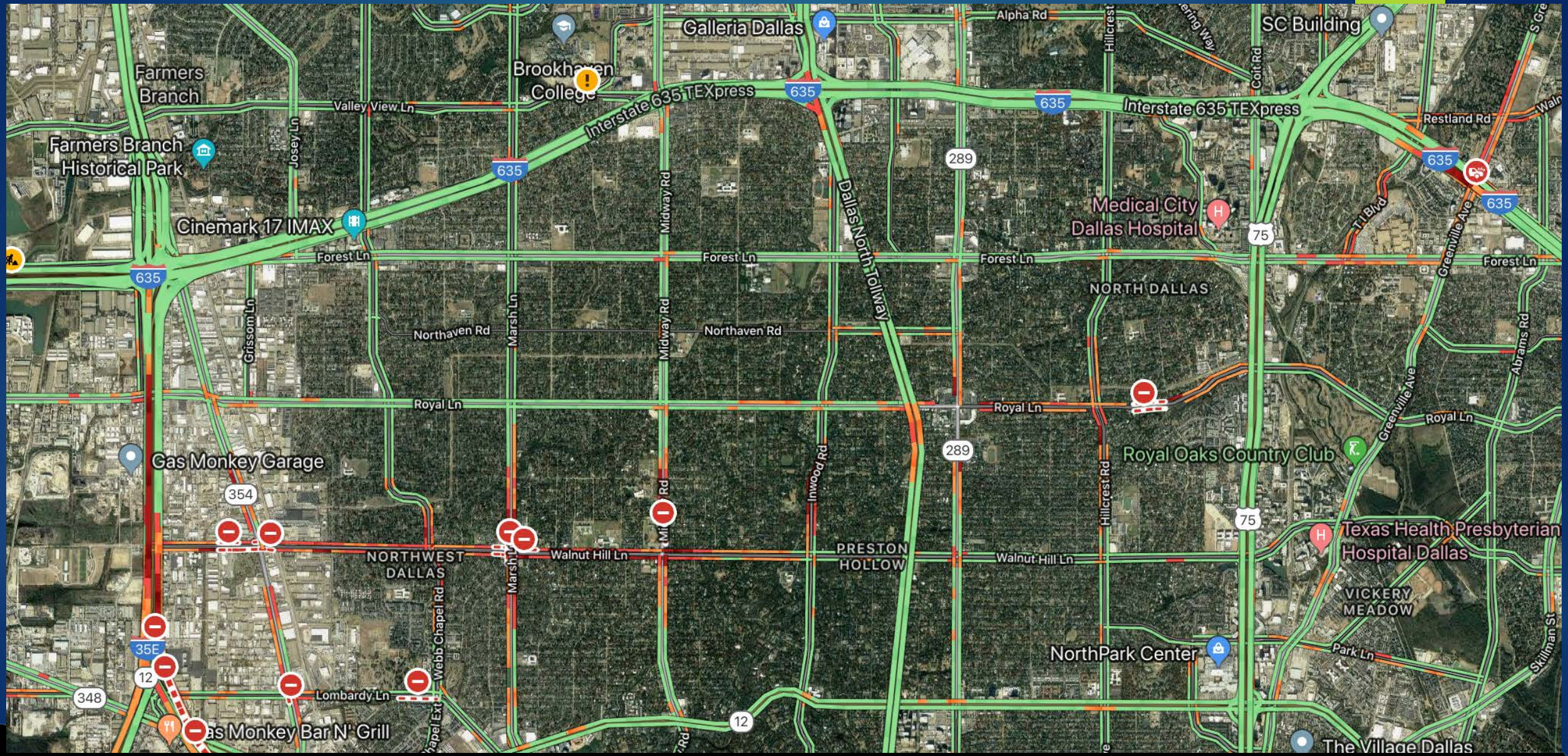
Dallas Tornado

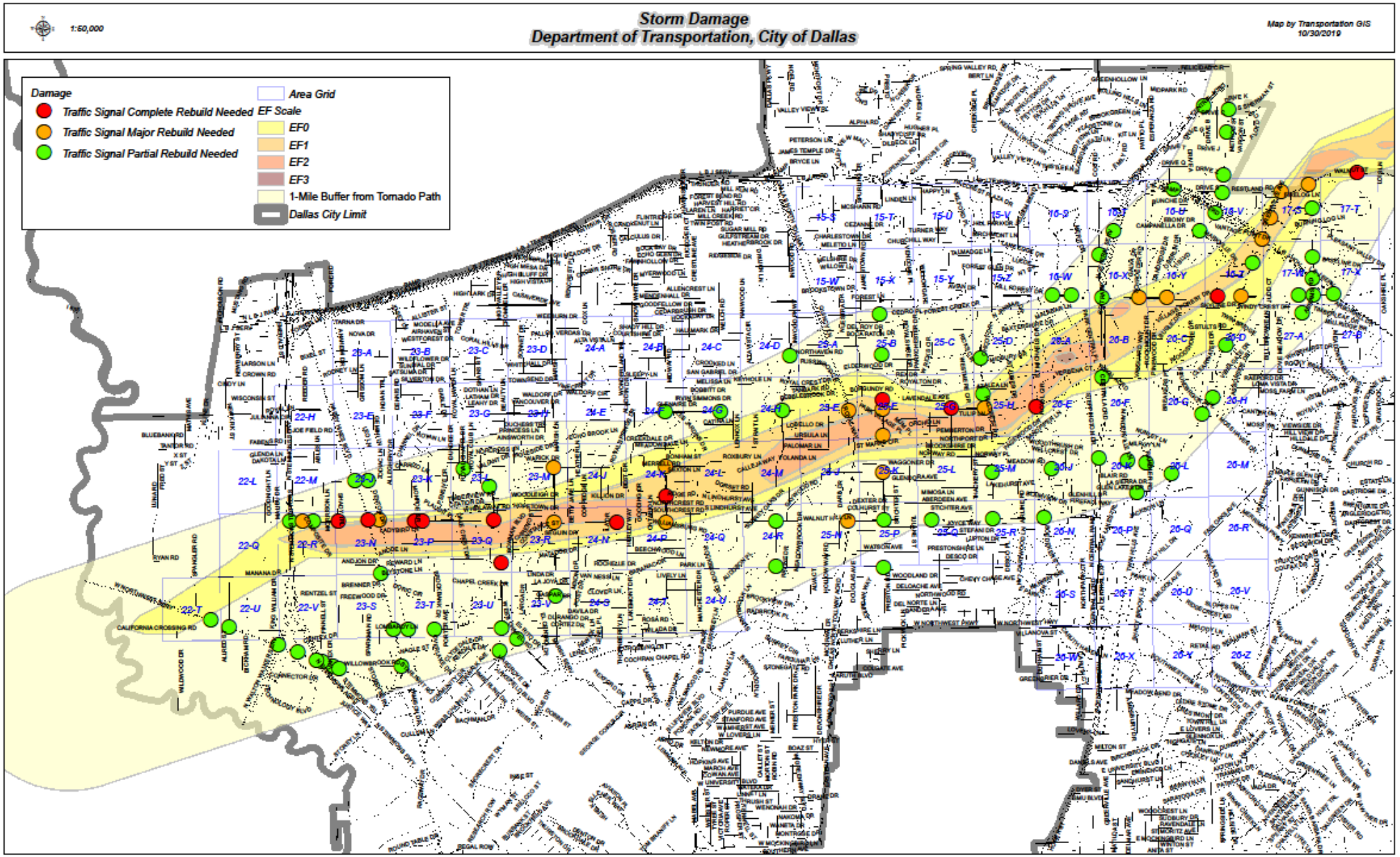


- Ericcson Gui used

- Determined Major Alarms as signal flash

- Had all flash calls cleared by noon outside of tornado area


Galleria Dallas
Alpha Rd
SC Building
Farmers Branch
Brookhaven College
Interstate 635 TEXpress
635
Valley View Ln
Farmers Branch Historical Park
Josey Ln
Cinemark 17 IMAX
Midway Rd
289
Dallas North Tollway
Medical City Dallas Hospital
75
Restland Rd
Forest Ln
Greenville Ave
NORTH DALLAS
Grissom Ln
Marsh Ln
Northaven Rd
Abrams Rd
Royal Ln
Gas Monkey Garage
Inwood Rd
Hillcrest Rd
Royal Oaks Country Club
354
NORTHWEST DALLAS
Walnut Hill Ln
PRESTON HOLLOW
Texas Health Presbyterian Hospital Dallas
VICKERY MEADOW
35E
12
348
Lombardy Ln
Webb Chapel Rd
NorthPark Center
Park Ln
Skillman St
The Village Dallas


1:60,000
Storm Damage
Department of Transportation, City of Dallas
Map by Transportation GIS
10/30/2019
Damage
Traffic Signal Complete Rebuild Needed
Traffic Signal Major Rebuild Needed
Traffic Signal Partial Rebuild Needed
Area Grid
EF Scale
EF0
EF1
EF2
EF3
1-Mile Buffer from Tornado Path
Dallas City Limit

Dallas Tornado

- EF 3 Tornado
- Many Signals damaged or destroyed
- Most signals affected had older controllers

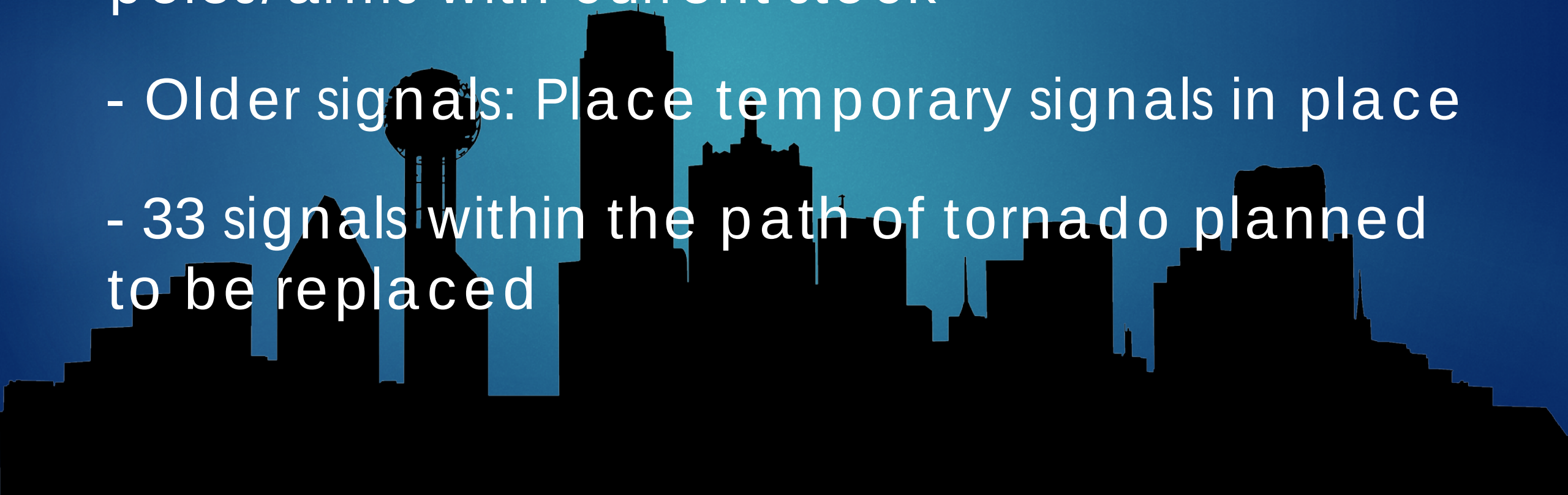
How do you deal with that??

Dallas Tornado

- Newer Signals: Replace damaged poles/arms with current stock

- Older signals: Place temporary signals in place

- 33 signals within the path of tornado planned to be replaced



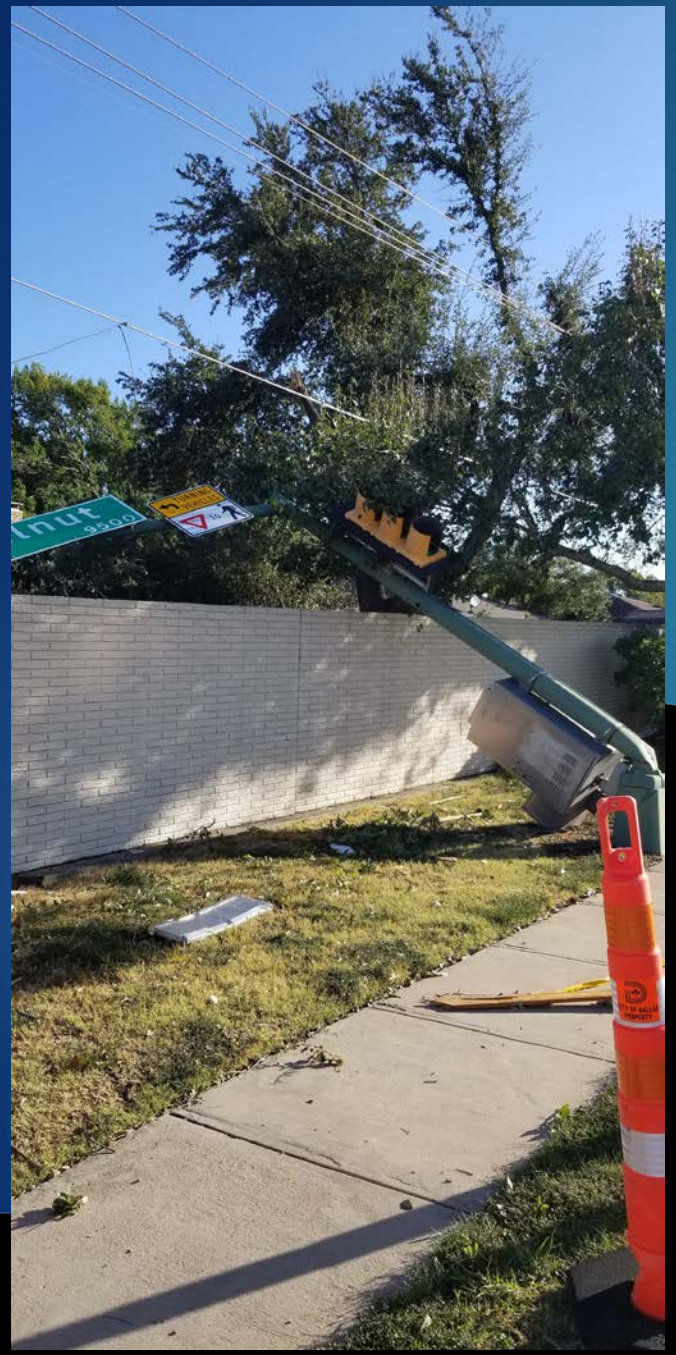
Preston-Royal

Greenville-LBJ

Harry Hines – Walnut Hill

Harry Hines – Walnut Hill

Killion-Midway



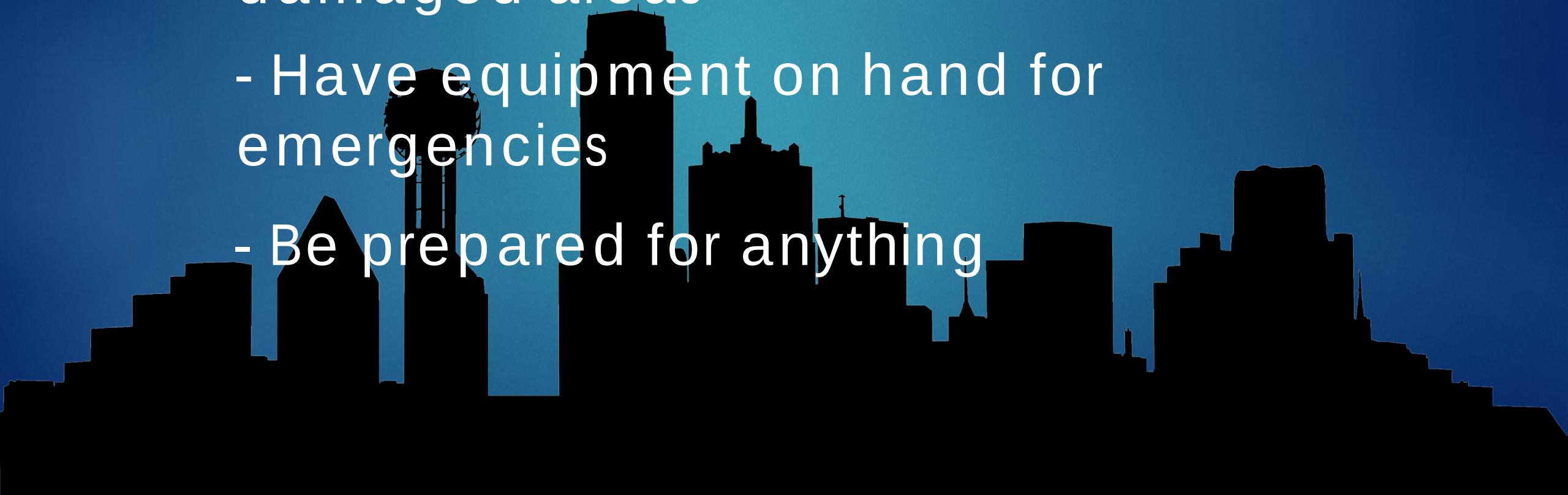
Preston-Preston Royal SC

Richland-Walnut

Dallas Tornado

Lessons Learned

- New system would have help identify damaged areas
- Have equipment on hand for emergencies
- Be prepared for anything



Any Questions?