

# Delaware Department of Transportation



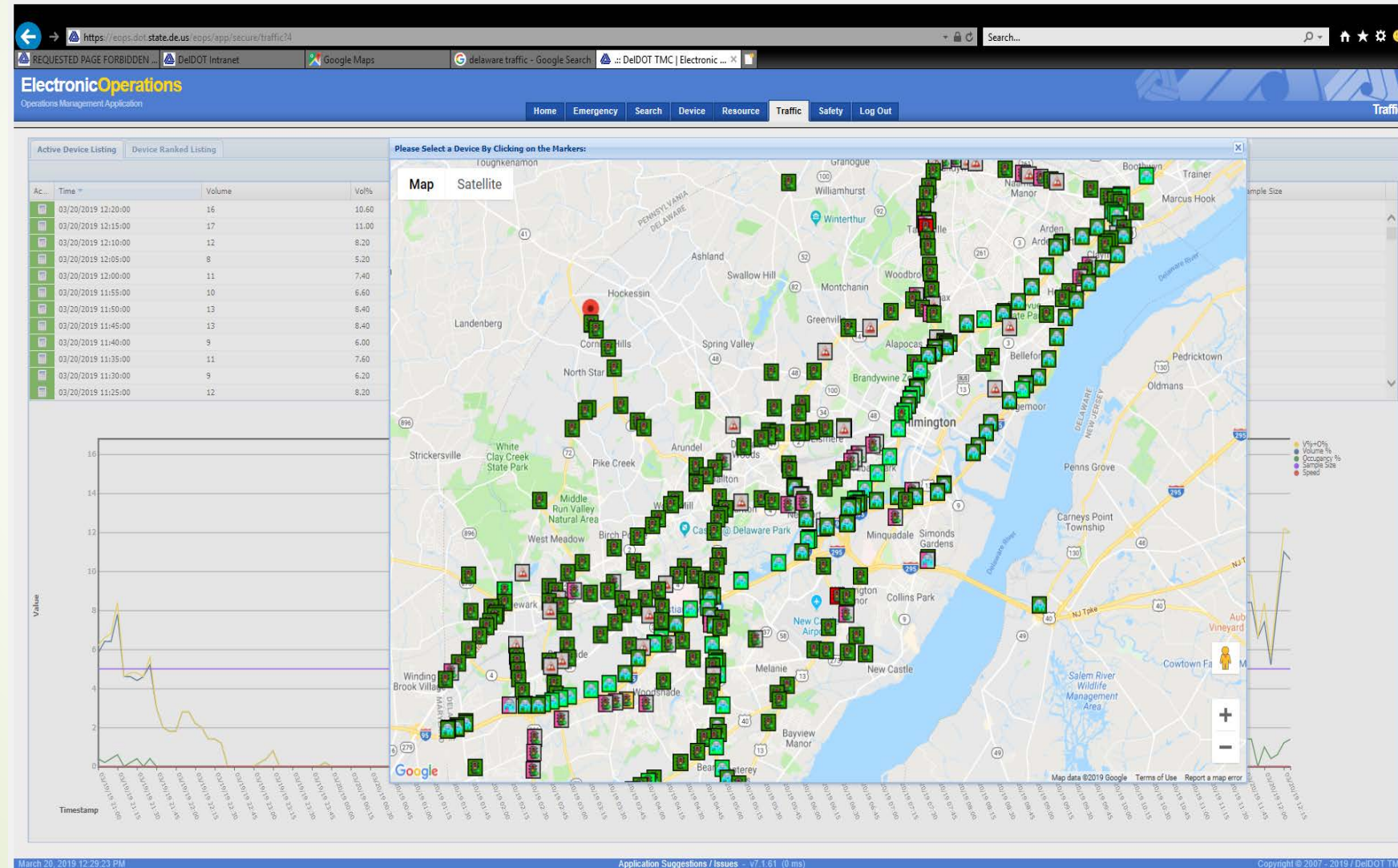
Smart Work Zone – Lane Closure  
Management

# Planning Least-Impactful Work Zone Projects



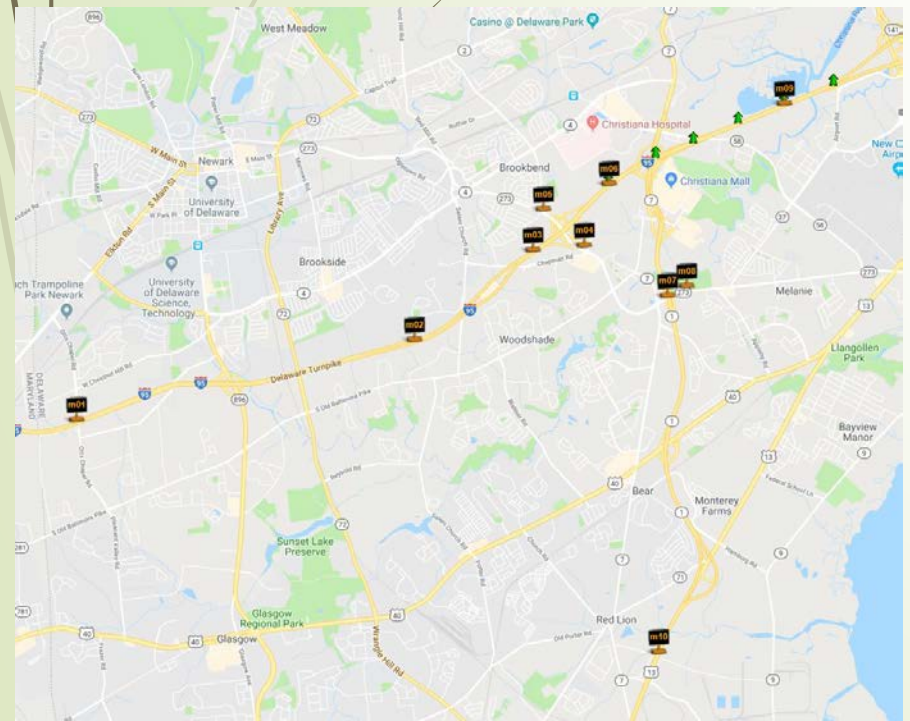
# Lane Closure Management - Traffic Data

- Pull traffic data from the Electronic Operations for the impacted corridor.
- Establish lane closure hours within the contract based on historical data.
- Include Special Event information that will be affected by the proposed project.
- Coordination is made when multiple projects will affect a similar corridor.



# DeIDOT - Smart Work Zone Technology (Today)


- Generic work zone messaging.
- Remote messaging access
- Not tied to a queue detection system.
- Contractor owns and maintains all equipment.



Q01 device view

Q01 Data  
Q01 TravelCosts  
Q01 Reports  
Q01 Info  
Geo-Fences

### Current Sensor Data



Speed	
N Lanes Average Speed:	63.2
Lane #1	67
Lane #2	67.1
Lane #3	66.5
Lane #4	64.6
Lane #5	55.6

Volume	
N Lanes Total:	159 Hourly: 5931 Daily: 30512
Lane #1	24
Lane #2	29
Lane #3	31
Lane #4	30
Lane #5	45

Density	
N Lanes Average Density:	13.7
Lane #1	11
Lane #2	12.9
Lane #3	12.4
Lane #4	11.7
Lane #5	20.6



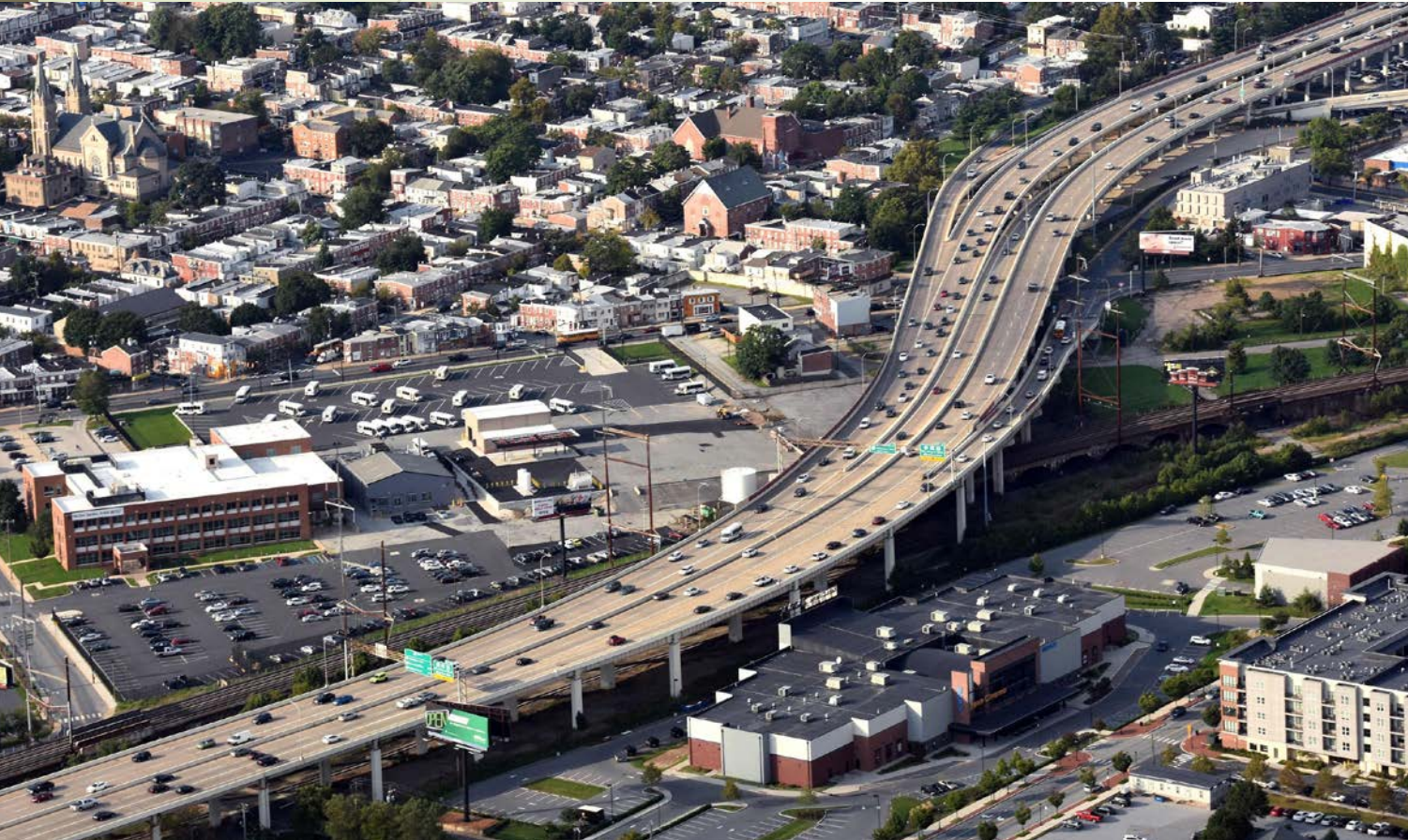
# DeIDOT – Smart Work Zone Technology (Tomorrow)



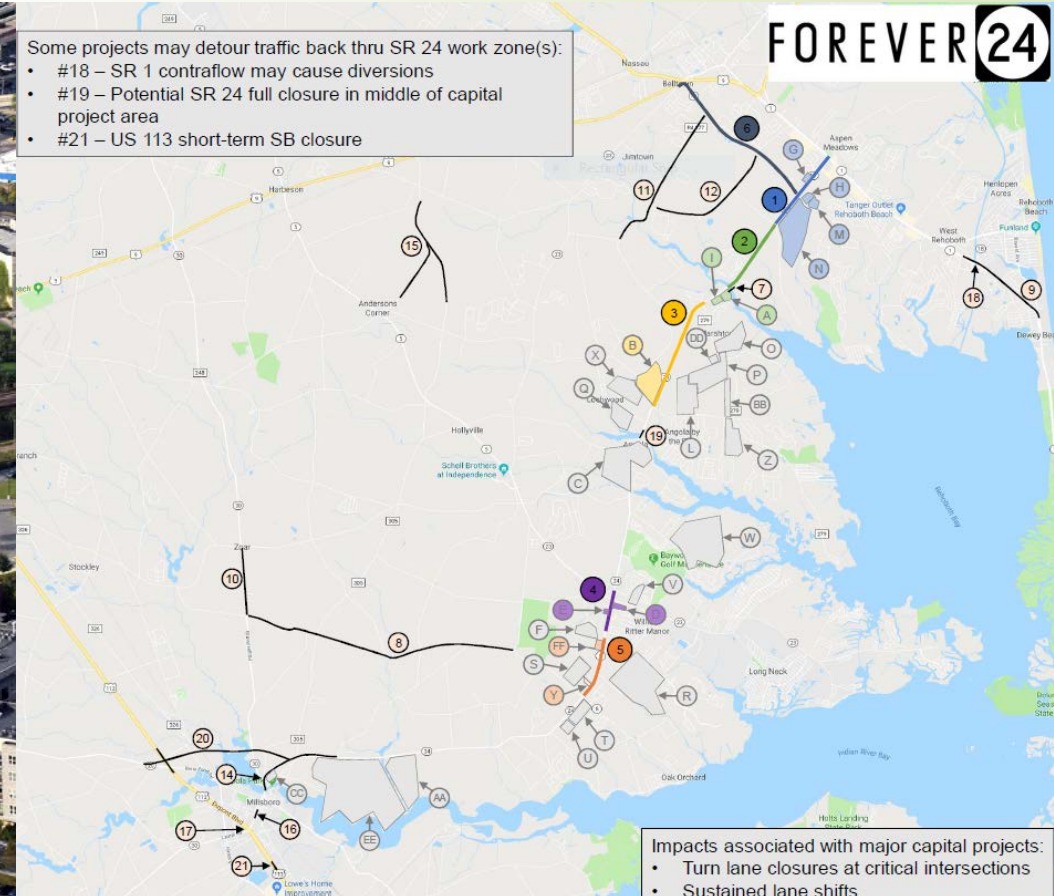
- Working on an Intelligent Transportation System (ITS) based Temporary Queue Detection System (QDS)
- Remote access from the DeIDOT Transportation Management Center (TMC).
- Portable non-intrusive traffic data collection devices (Bluetooth reader).
- Network-based software management system for data storage and message display decision logic.
- Ability to display generic messages or actual travel times through the work zone.

# DeIDOT – Smart Work Zone Future Deployment

- I-95 Viaduct Project through the City of Wilmington



- SR 24 near the Delaware Beaches.



# DeIDOT – Smart Work Zone Challenges

- State vs. Contractor Purchase/Mobilize/Maintain.
- Funding.
- Linking the new Smart Work Zone technology into our current resources (WTMC, Facebook, Twitter, DeIDOT App, permanent message boards).
- Available IP Address numbers.

