

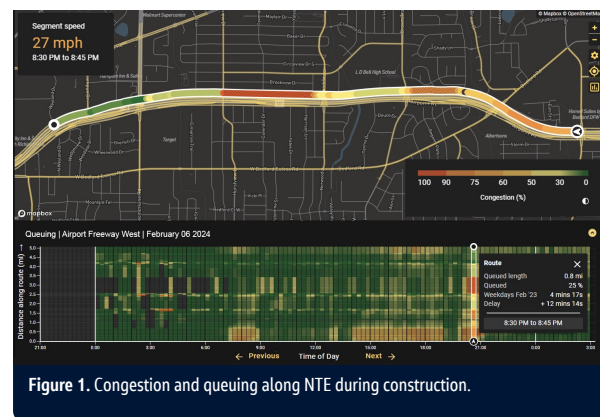
CONSTRUCTION

Measuring Impact of North Tarrant Express Closures

StreetLight provided timely data on nighttime traffic in and around construction zones to help TxDOT and partners assess road closure efficacy.

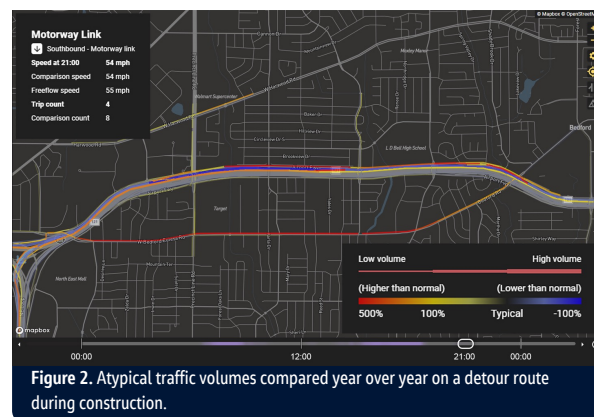
CHALLENGE

Texas Department of Transportation (TxDOT) and North Tarrant Express Mobility Partners were improving traffic capacity on North Tarrant Express (NTE), a major corridor that connects Fort Worth and Irving, Texas. The capacity improvement project added one managed lane in each direction on State Highway 121/183, and one general purpose lane in each direction on I-820. TxDOT and partners needed to know how construction closures and detours influenced traffic flow in the surrounding areas.



DATA SOLUTION

StreetLight quantified impacts on public mobility and accessibility during nighttime construction. We reported on alternative routes taken, traffic and speed in nearby cross streets and residential areas, and speeds through construction zones. Travel times, speeds, and delays were tracked to identify slowdowns and refine detour efficacy. Each day, findings from the previous night's closures were compiled into a summary email, giving clients quick understanding of closure performance.



VALUE FOR OUR CLIENT

"StreetLight's ability to provide real-time data makes it a valuable tool for both pre-construction planning and ongoing improvements, minimizing the impact of construction on traffic flow and improving overall project efficiency."

Brent Long, PE, MBA
Senior Project Manager

Along with main lanes and express lanes, StreetLight captured traffic volumes on ramps, frontage roads, and cross streets where the agencies' counters couldn't. StreetLight's analysis identified an unforeseen detour route that drivers started taking, and our data was available more quickly than counter data. With the daily email updates, the client was able to assess closures by the next morning and manage related congestion and safety issues.