

NJDOT Real-Time Signal Performance Measurement

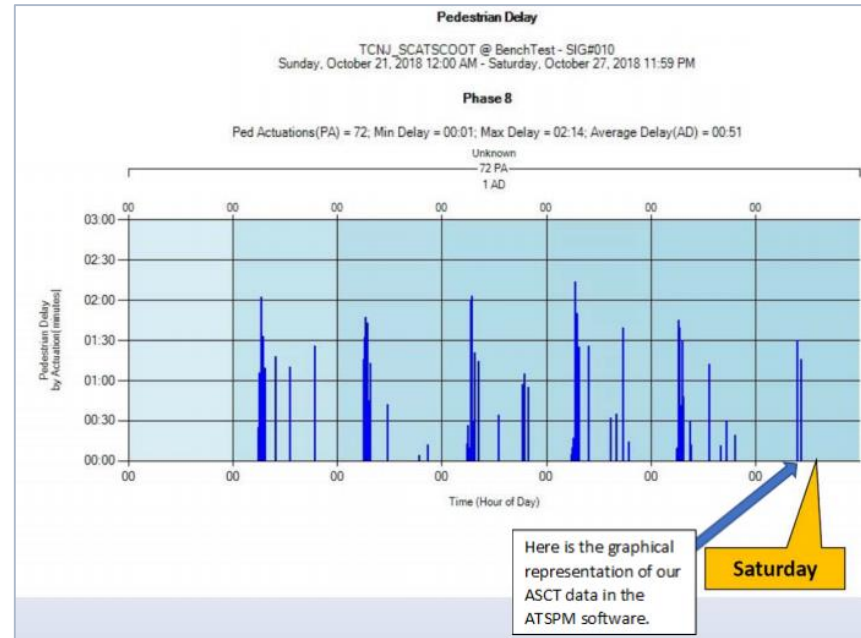


OVERVIEW OF INNOVATION

NJDOT has deployed Adaptive Signal Control Technology (ASCT) in select corridors and required a set of metrics to gauge functionality and effectiveness in easing traffic congestion and reliability. However, the monitoring and assessment of the ASCT performance at arterial corridors has been a time-consuming process.

A research team working with NJDOT designed an automated traffic signal performance measurement system (ATSPM) based on existing open-source software to develop an economically justifiable ATSPM for arterial traffic management in New Jersey.

Phase II of the research involves the development and deployment of a significantly-enhanced version of the original toolbox, NJDOT ATSPM 2.0, along with a pilot study on the integration of Connected Autonomous Vehicle technologies, Roadside Units, and Onboard Units.



Source: NJDOT

BENEFITS

Improves safety by reducing traffic congestion.
Targeted maintenance saves time and money.

Addresses problems before they become complaints.

Adjusts timing without lengthy data collection effort.

FIND OUT MORE . . .

- NJDOT Real-Time Signal Performance Measurement:
<https://www.njdottechtransfer.net/2020/06/12/development-of-rttspms/>
- Jin, Peter et. al (2019). NJDOT Real-Time Signal Performance Measurement (RT-SPM). Final Report.
<https://www.njdottechtransfer.net/wp-content/uploads/2020/01/FHWA-NJ-2019-002.pdf>

NJDOT Transportation Mobility

Kelly McVeigh, Principal Engineer Traffic
609-530-2738; Kelly.McVeigh@dot.nj.gov

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