

GDOT Pilot Project on Deploying Connected Vehicle Technology along SR 141/Peachtree Rd and SR 8/North Ave - Emission Analysis and Performance Monitoring

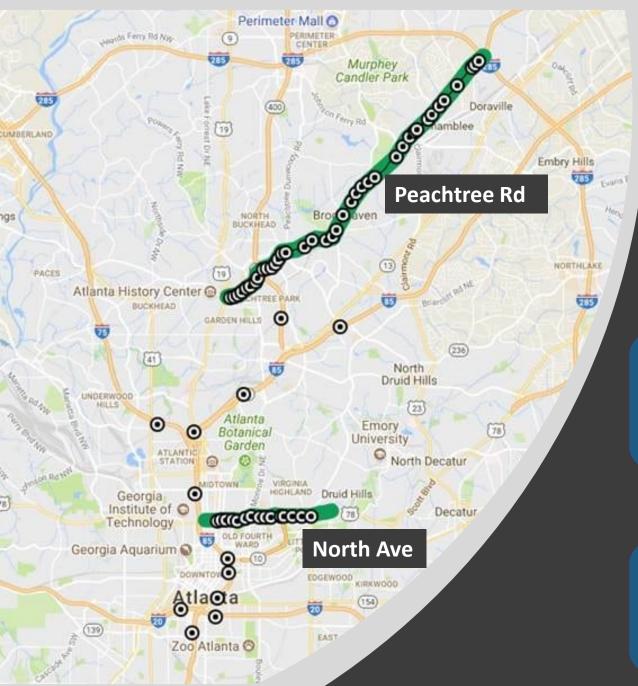


Team

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- Special thanks to Jennifer Zhan

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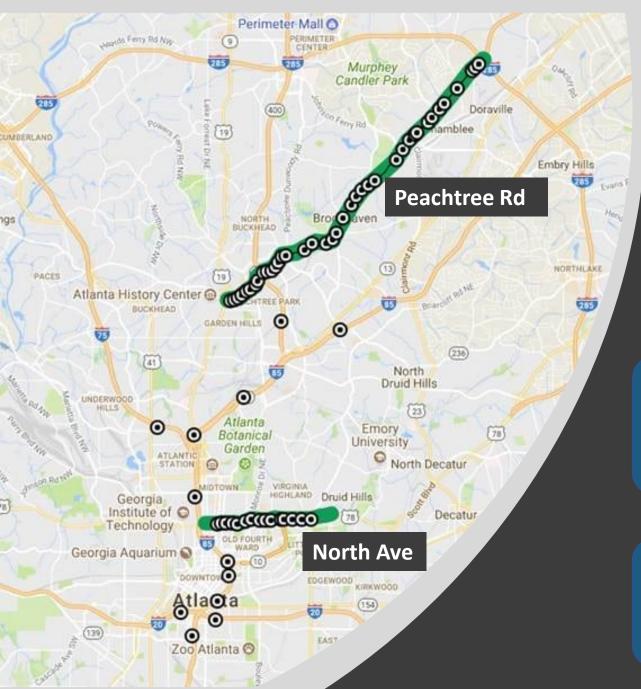


Study Goal

- To understand how CV technology could proactively change speed to adapt to the prevailing traffic conditions,
- To understand if travel behavior and driving pattern changes would demonstrate positive transportation and air quality impacts

Analysis

- Observations and comparisons between "Before" and "After" data
- MOVES 2014a model to estimate the potential emission changes



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Data

- Hourly speed data from GDOT Regional Traffic Operations Program (RTOP)
- Air quality modeling data from Georgia Environment Protection Division (EPD) and Atlanta Regional Commission (ARC)

Analysis Outcome

- Traffic changes between "Before" and "After"
- Travel behavior changes for both CV vehicles and traditional vehicles
- Air quality and emission changes