



Cooperative Automated Transportation Update

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Committee of the Whole

February 19th, 2020



Overview

- **What is Cooperative Automated Transportation (CAT)?**
- **How is GDOT Implementing CAT?**
 - **Connected; Automated; Shared**
- **Moving Forward**

What is CAT? (Not just CAV)

- **Cooperative:** Utilizing technology to encourage all modes of transportation to work in concert to provide a safe, efficient, and integrated transportation system.
- **Automated:** Automation of modes (cars, trucks, scooters, etc.) can allow improved efficiency, safety, and effectiveness of the existing transportation system.
- **Transportation:** The entire transportation system working together in a safe, reliable, and effective way.

How is GDOT Involved in CAT?

- CAT Coalition
- FHWA National Dialogue on Automation
- CV Pooled Fund
- IOO/OEM Forum
- AASHTO Committees
- SAE
- NCHRP

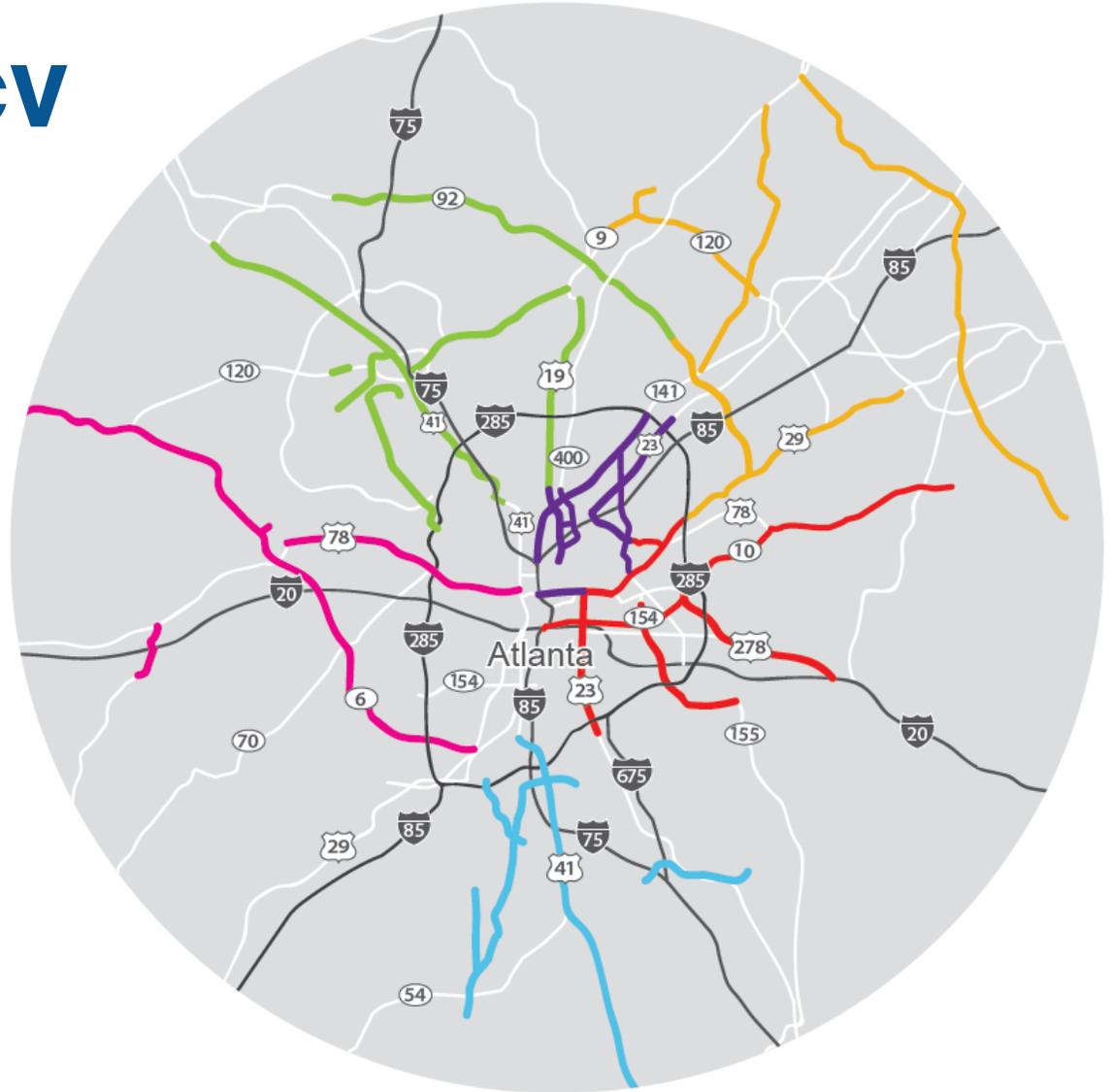


GDOT Implementing CAT - CV

RTOP – March 2021

GDOT Investment + USDOT ATCMTD Grant

- 1,600 traffic signals in metro Atlanta
- 185 ramp meter locations
- **Regional deployment**
 - **Not a pilot program: a deliberate inter-agency deployment across the entire metro Atlanta region**



GDOT Implementing CAT

- Rural Interstate Setting



Rural CV Demonstration

- Queue Detection
- Crash Warning
- Weather Alert
- Data Management



GDOT Implementing CAT - AV

- National Dialogue on Automation Update
- Striping Changes for AVs
 - 6" Striping
 - Dotted Lines across Exit Ramps
 - Contrast

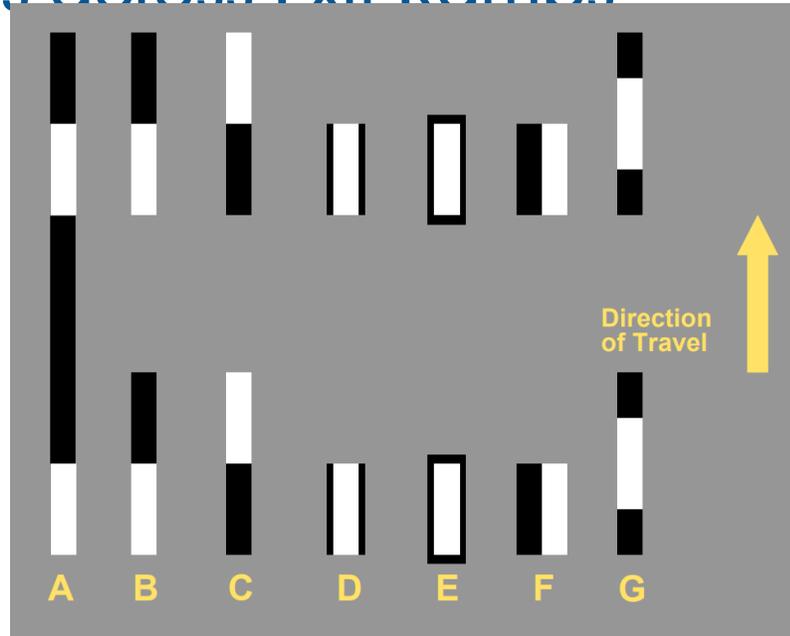
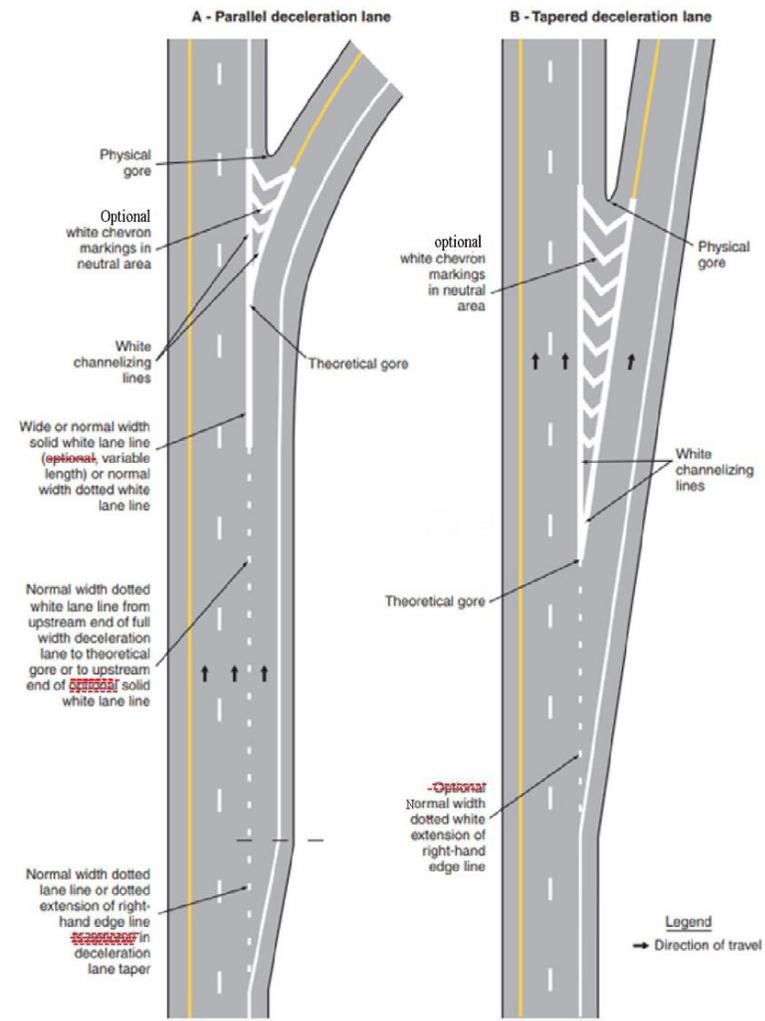


Figure 3B-8. Examples of Dotted Line and Channelizing Line Applications for Exit Ramp Markings (Sheet 1 of 2)



GDOT Implementing CAV

- Shared Mobility



Moving Forward

- CV Expansion
- Potential Grant Opportunities
- Continued Leadership Position Nationally

DOT's Elaine Chao Announces ADAS, Connected Technology Programs



U.S. Secretary of Transportation Elaine Chao announced a number of initiatives involving connected vehicle technologies at TRB's meeting. (Transportation Research Board)

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WASHINGTON — Transportation Secretary Elaine Chao announced several initiatives relating to connected vehicle technologies and advanced driver assistance systems before a crowd of industry representatives Jan. 15.

During her remarks at the Transportation Research Board's annual meeting, Chao announced a new pilot program to deploy "vehicle-to-everything" (V2X) communication systems around the country to help prevent accidents involving first responders. She reported that there are about 46,000 crashes and 150 fatalities every year involving emergency response vehicles.

Questions?

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