Georgia’s Regional Traffic Operations Program

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Agenda

• Traffic Signals in Georgia

• Regional Traffic Operations Program

• Accomplishments

• Future Expansion
Atlanta Region’s Signal Operators

- In most major metropolitan areas:
  - State DOT manages the freeway network
  - Local agencies manage arterials
- In Atlanta:
  - 4 GDOT Districts
  - 15 Counties
  - 22 Cities
RTOP’s Role

• Traffic Signal Maintenance and Repair Issues
• Regional Focus
  ✓ Mainline Priority
  ✓ Cross-Jurisdictional
• Actively Manage Traffic Flow

Mission: To increase travel throughput by minimizing congestion and reducing delays along regional commuter corridors through improved signal operations.
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RTOP Partners
Regionally Significant Corridors
What have we been doing?

• Repair of equipment
• Communications to traffic signals
• Surveillance at key locations
• Active signal timing adjustments
Equipment Repair

Operational Detection

Program Goal

Vehicle Detection
Pedestrian Detection
SR 6 Vehicle Detection
SR 6 Pedestrian Detection
Remote Communications

- 378 Currently Online

Accessible to GDOT (445)
Accessible to Locals (56)
No remote communications (84)
Remote Communications

- Status Monitoring
- Detector Diagnostics
Traffic Responsive Operation
Ponce de Leon Ave @ N Highland

Tuesday March 19, 2013
Are Mon–Thurs Really the Same?

Weekday Average

Volume

24 Hour

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

0 500 1000 1500 2000 2500 3000

Volume

AM PEAK
06:00 - 10:00

PM PEAK
15:00 - 19:00

Monday
Tuesday
Wednesday
Thursday
Friday

Georgia Department of Transportation
Regional Traffic Operations Program
Surveillance

- CCTV added to NaviGAtor

- Detection Cameras

- Online (99)
- Under Construction (87)
- Offline (61)
Active Management (before remote communication)

- Limited to:
  - Major Events
  - Planned Events

- Incidents lasting longer than one peak period
Active Management

• Control from a single location
• AM Peak
  • 6 AM to 10 AM
• PM Peak
  • 3 PM to 7 PM
• Response to any event
Spring 2012 Comparison to Baseline

- During the AM/PM peaks:
  - Reduced number of stops by 8.3%
  - Reduced stopped time delay by 12%
  - Traffic Volume increased by 9%
Project Benefit

• Over the last year during AM/PM peaks:
  
  • Eliminated 1.2 million hours of delay
  
  • Saved 700,000 gallons of fuel
What’s Next

• RTOP is expanding

October 2013
Other Traffic Operational Programs

- GDOT has provided seed money
- Community Improvement Districts to Implement
- Two Programs
  - Perimeter CIDs
  - Midtown Alliance
Thank you

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