



**TRANSPORTATION
DEPARTMENT**

Chatham County ATMS & Traffic Management Center Symposium

gwinnettcounty
GOVERNMENT



Topics and Outline

Gwinnett County's Traffic Control Center

- History and Growth
- Funding and Planning
- Current Operation
- Partnerships

History and Growth

- Result of the 1996 Summer Olympics



- GDOT funded Traffic Control Centers for Metro Area



- Link to the GDOT Traffic Management Center





History and Growth

- Need to expand ATMS/ITS capabilities identified in the 2001 Comprehensive Transportation Plan
- Expansion was seen as a method of improving the safety and efficiency of the County's road network





Funding and Planning

- ITS Projects were identified and submitted to Atlanta Regional Commission for potential funding
- Revenue from the 2001 & 2009 SPLOST was designated for ATMS/ITS expansion and a modern Traffic Control Center





Funding and Planning

ITS Master Plan

- Completed in conjunction with CTP Update / Unified Plan
- Provided guidance for ITS expansion

TCC Master Plan

- Additional functions
- Review of new technologies
- Hours of operation
- Staffing needs
- Equipment maintenance and upgrades

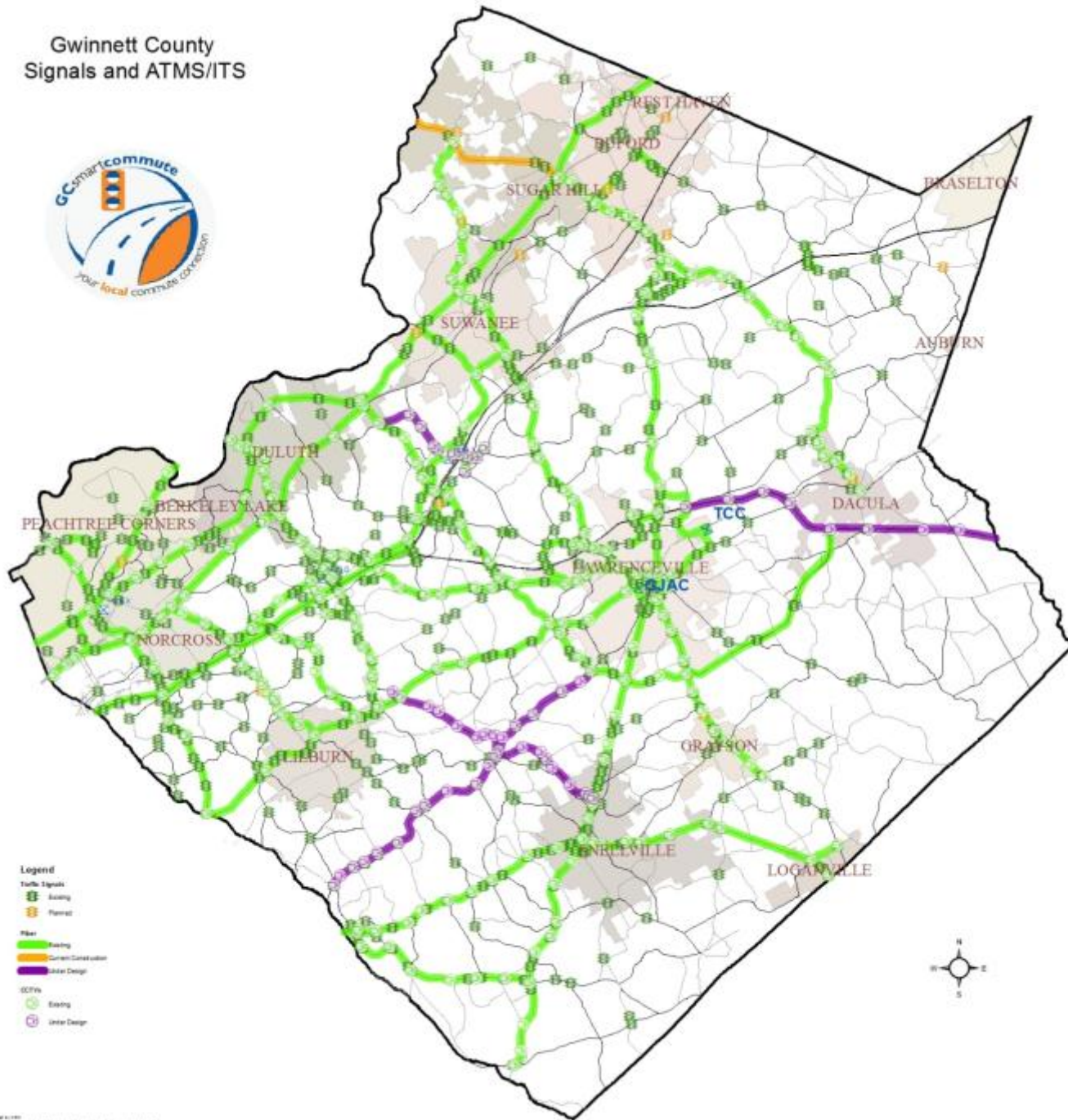


Funding and Planning

ITS Mission Statement

The primary mission of the Gwinnett County Intelligent Transportation System is to minimize delays on the roadway system by providing peak hour and special event surveillance of county arterials to identify incident locations and areas of congestion, allowing remote signal coordination and maintenance, and enabling local (government, business and citizen) access to traffic conditions.

Gwinnett County Signals and ATMS/ITS



- Legend**
- Traffic Signals
 - Existing
 - Planned
 - Road
 - Existing
 - Current Construction
 - Under Design
 - CCFVs
 - Existing
 - Under Design





Current Operation

- Completed 39 ATMS / ITS Projects
- 220 miles of fiber optic communications cable along most major corridors
- 243 CCTV cameras for intersection and arterial surveillance
- 705 Traffic Signals
 - 501 via fiber network
 - 52 via dial-up connection





Current Operation

TCC Staffing / Daily Task

- 6:00am to 7:00pm
- Review traffic signal systems
- Look for unusual congestion
- Review and respond to citizen service request



Incident Response and Special Event Monitoring

- Construction delays
- Unplanned events
- Planned events



Current Operation

Active Arterial Traffic Management

- Daily monitoring of network and system
- Improved response to incidents
- Communications and operations checks
- Assist in repairs and replacements





Current Operation





Current Operation

Distribute video to partner agencies to utilize for incident management

- E911 / Communications
- Gwinnett County Police
- Fire & Emergency Services
- Emergency Operations Center
- External Public Safety Agencies (Future)





Current Operation

Traveler Information Website

GC Smart Commute www.gcsmartcommute.com

The screenshot shows the GC Smart Commute website interface. At the top, there is a navigation bar with links for 'ABOUT GWINNETT', 'SERVICES', 'DEPARTMENTS', 'CALENDAR', 'NEWS', 'EMPLOYMENT', and 'TOP LINKS'. Below this is a search bar and a 'Sign up for our email newsletter!' button. The main content area is titled 'GC Smart Commute - your local commute connection'. It includes a map of Gwinnett County with a camera icon highlighted. Text on the page explains that users can access real-time traffic snapshots along major corridors by clicking on camera icons. A sidebar on the left lists various transportation services and programs, including 'GC Smart Commute', 'Gwinnett County Transit', and 'SR 20 North Widening'. At the bottom, there is a note about the website's data source: 'Get up-to-date traveler information by watching live streaming video from select Gwinnett County traffic cameras.' and a small 'Unknown Zone (Mixed)' label.

This screenshot displays the camera view interface for a specific location. The main window shows a live video feed of a multi-lane highway with traffic. To the right of the video is a 'Camera Information' panel with the following details: 'Route: PLEASANT HILL RD', 'Cross Street: GWINNETT PLACE DR', and 'Camera Location: Traffic on PLEASANT HILL RD closest to the camera is traveling West'. Below the video, there are three small thumbnail images of other camera locations: 'PLEASANT HILL RD, OLD NORTHCROSS RD', 'PLEASANT HILL RD, GWINNETT PLACE DR', and 'PLEASANT HILL RD, BRECKENRIDGE BLVD'. The current camera is selected, and the text 'Amp To PLEASANT HILL RD, GWINNETT PLACE DR' is visible at the bottom. Navigation buttons for 'Previous Camera' and 'Next Camera' are also present.



Current Operation

GC Smart Commute

- Map Display for camera selection
- CCTV Snapshots
- Travel Time Data (Google Traffic)
- Road Closure and Construction Information
- Streaming Video Loop



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Channel 23 in
Gwinnett County



Partnerships



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Awards

- 2009 NACO Achievement Award
- 2010 ITS Georgia Outstanding Public Agency Award
- 2011 ACCG Georgia County Excellence Award
- 2013 ITS Georgia Outstanding Public Agency Award
- 2015 ITS Georgia Outstanding Public Agency Award
- 2015 ITS Georgia Larry R. Dreihaup Award (Tom Sever)



Special Thanks



- Gwinnett County Board of Commissioners
- Georgia Department of Transportation
- Gwinnett County Staff
- Consultants and Contractors
- Gwinnett voters who continue to support the County SPLOST program



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Questions