



**Georgia's  
Intelligent Transportation System**

**[www.georgia-NaviGAtor.com](http://www.georgia-NaviGAtor.com)**

**Talking Technology and Transportation (T3) Webinar**

**March 4, 2008**

# The Beginning of NaviGAtor

- **Primarily in response to Atlanta's selection as host of the 1996 Summer Olympic Games**
  - What can we do to keep traffic moving during this massive influx of people?
  - What technologies can we show off to the world related to transportation?



# The Beginning of NaviGator

- Georgia DOT took lead role in developing system
- Primarily used Demonstration Project (DPI) and Congestion Mitigation (CMAQ) funds
- GDOT partnered with FHWA, five local counties, the City of Atlanta, and transit (MARTA)



U.S. Department  
of Transportation

**Federal Highway  
Administration**



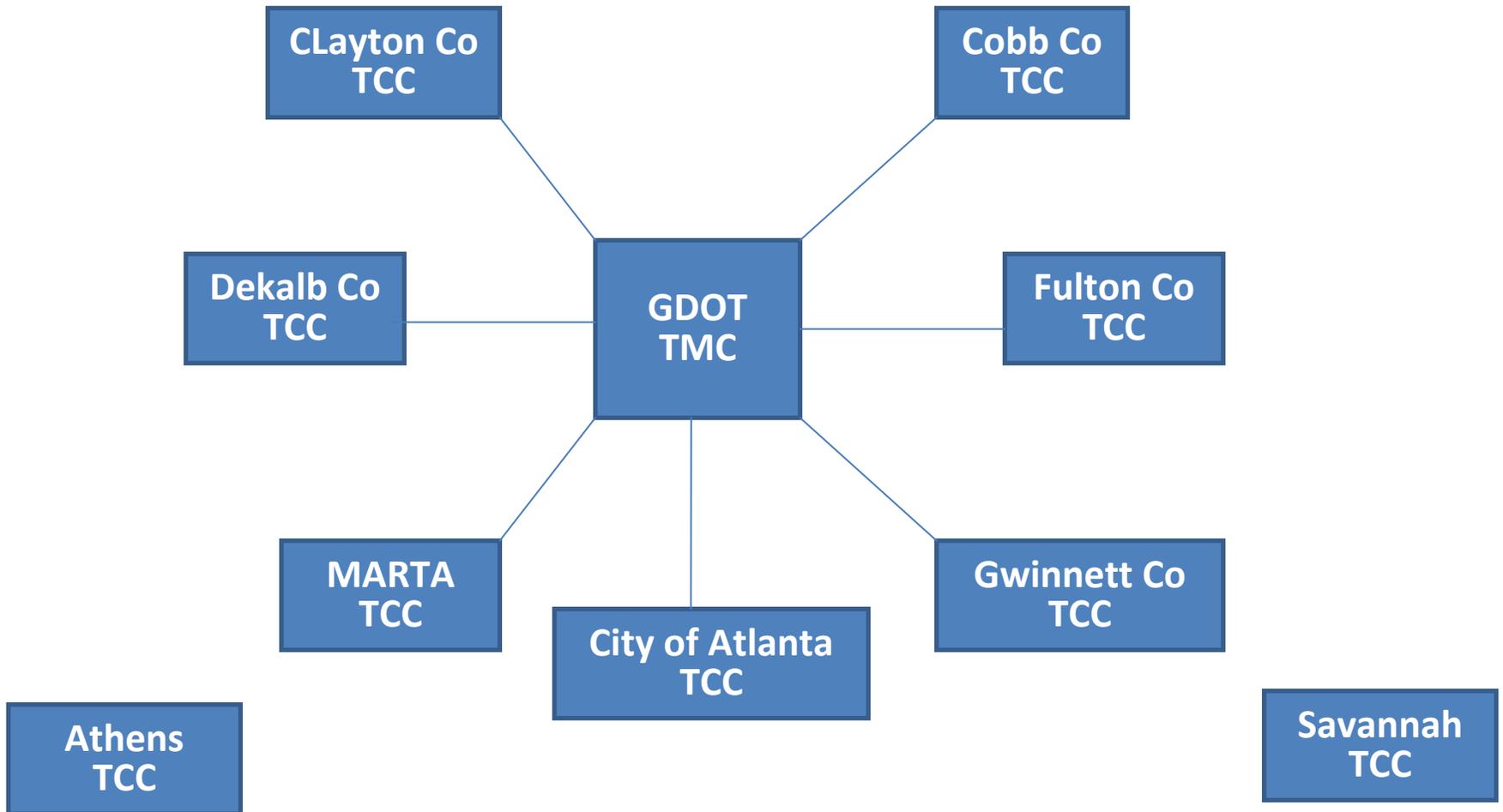
# Initial Concept

- **NaviGator was to be:**

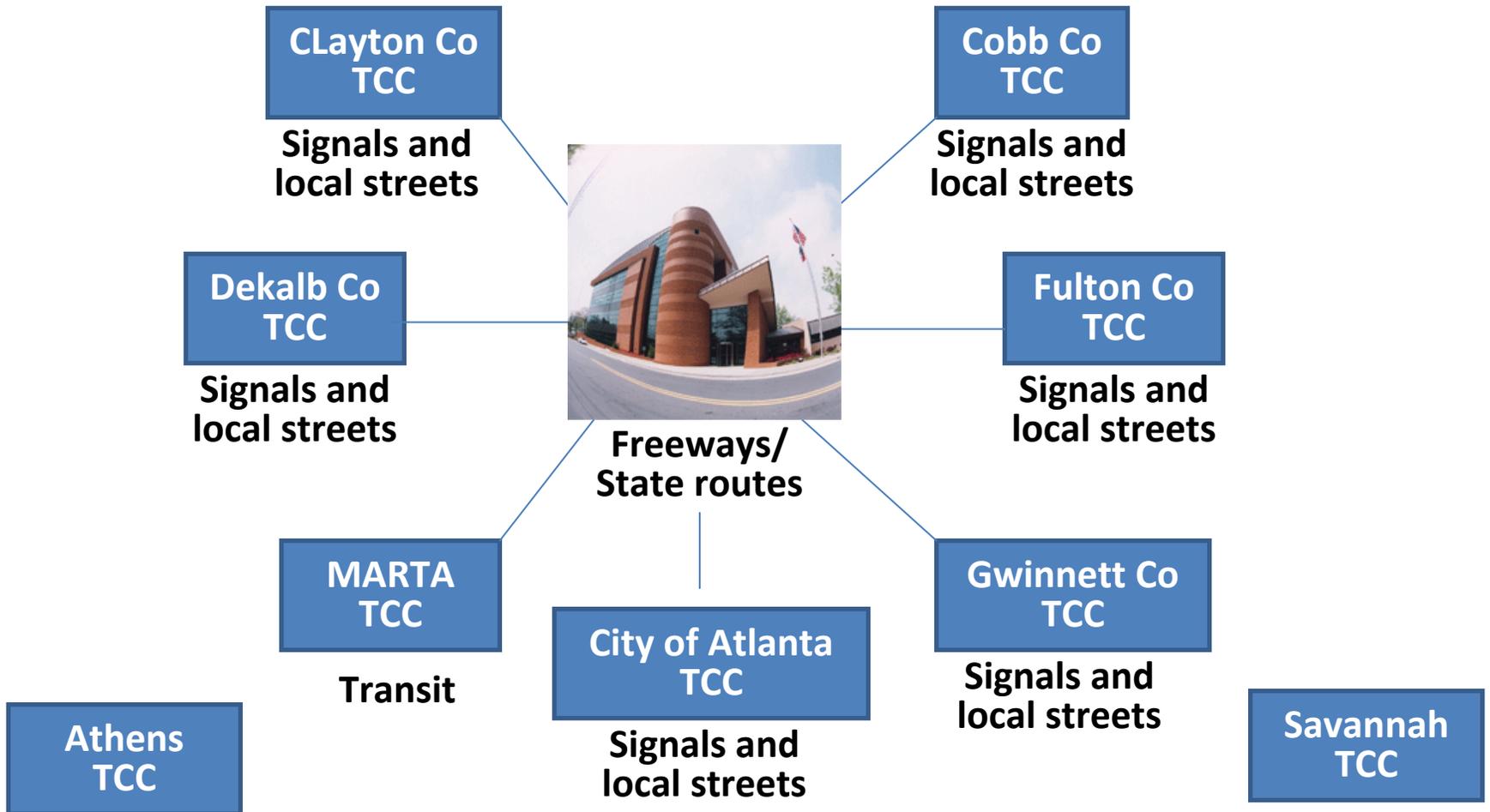
- Primarily a freeway incident and traffic management program
- Secondarily a traveler information system
- Centered in a GDOT Transportation Management Center (TMC)
- Networked with satellite Transportation Control Centers (TCCs)



# Initial Concept

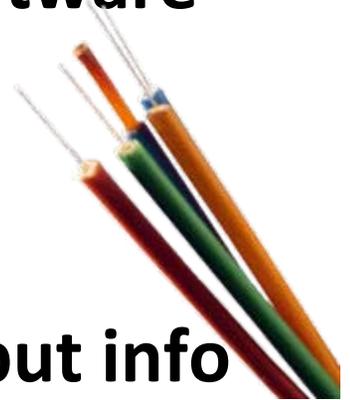


# Initial Concept



# Initial Concept

- Instead of being housed in same facility, partner jurisdictions are tied together virtually
- All partners run the same NaviGator software
- Interconnected via fiber
- All video is shared, including control
- Each partner maintains own database, but info is shared
- MOUs signed between State and locals



# Roles

## Georgia DOT

- Freeway surveillance
- Freeway speed/volume detection
- Freeway incident management
- Ramp metering
- Traveler Info (message signs)
- Traveler Info (website and 511)
- HOV Lane monitoring
- State Route management
- Construction tracking statewide
- Maintenance dispatch
- Traffic signal repair dispatch

## Local Jurisdictions

- Arterial surveillance
- Traffic signal operation
- Arterial Traveler Info (message signs)
- Arterial Traveler Info (Traffic TV)



# Common Software Platform

# Incident Management

Navigator - X-Win32

Incident Management

## Jurisdiction

### Confirmed Incidents

Incident Attributes	TAKE CONTROL			OPTIONS			MONITOR		
	Contact List	Response Plan	Deconflict Incident	Incident Report	Sort By...	Filter By...	Incident Attributes	Contact List	Response Plan
1006941	GDOT Monitor	Sun Jan 20 14:58	Construction	Gwinnett			Northbound SR 141 AT MILE POST 2.25		
1365263	GDOT Monitor	Fri Jan 18 08:08	Other Closure	White			Northbound /Southbound SR 348 MILE PO		
1365266	GDOT Monitor	Fri Jan 18 08:09	Other Closure	Union			Northbound /Southbound SR 348 MILE PO		
1365268	GDOT Monitor	Fri Jan 18 08:09	Other Closure	Towns			Northbound /Southbound SPUR 180 MILE		
1365693	GDOT Monitor	Tue Jan 22 09:19	Other	Dade			SR 189 AT SR 157		
1365696	GDOT Monitor	Tue Jan 22 09:19	Accident	Chatham			Westbound SR 26 AT MILE POST 10.31		
1365699	GDOT Monitor	Tue Jan 22 08:31	Construction	Cobb			Northbound I-75 FROM MILE POST 258 TO		
1365706	GDOT Monitor	Tue Jan 22 08:18	Construction	Gwinnett			Northbound I-85 FROM MILE POST 113 TO		
1365724	GDOT U	Tue Jan 22 08:55	Stall	DeKalb			Westbound I-20 AT FLAT SHOALS		
1365726	GDOT Monitor	Tue Jan 22 09:29	Accident	DeKalb			Southbound I-85 AT NORTH DRUID HILLS		
1365735	GDOT Monitor	Tue Jan 22 09:02	Stall	Fulton			Northbound I -75/85 NORTH OF LANGFORD		
1365701	GDOT Monitor	Tue Jan 22 09:00	Construction	Cobb			Southbound I-75 FROM MILE POST 271 TO		
1365708	GDOT Monitor	Tue Jan 22 09:13	Construction	Fulton			Eastbound I-285 FROM MILE POST 62 TO I		
1365709	GDOT Monitor	Tue Jan 22 09:13	Construction	Fulton			Westbound I-285 FROM MILE POST 58 TO I		
1365710	GDOT Monitor	Tue Jan 22 09:13	Construction	Fulton			Northbound I-285 FROM MILE POST 0.0 T		
1365712	GDOT Monitor	Tue Jan 22 09:07	Construction	Fulton			Southbound I-285 FROM MILE POST 10 TO		

### Potential Incidents

Incident Attributes	TAKE CONTROL			OPTIONS			MONITOR		
	Contact List	Response Plan	Deconflict Incident	Incident Report	Sort By...	Filter By...	Incident Attributes	Contact List	Response Plan
942213	GDOT Monitor	Tue Jan 8 09:54	Other	Coweta			***CONTACT INFO FOR I-85 MP 47-56 AND		
1365293	GDOT Monitor	Fri Jan 18 10:10	Other				Cams 262 & 375 disabled *Recording th		
1365492	GDOT Monitor	Sun Jan 20 02:17	Other	White			PLEASE READ: CONTACT PERSON FOR DIST		
1365702	GDOT U	Tue Jan 22 07:43	Construction	Columbia			Eastbound I-20 MILE POST 192 TO MILE		
1365704	GDOT U	Tue Jan 22 07:45	Construction	Columbia			Westbound I-20 FROM MILE POST 194 TO I		
1365705	GDOT U	Tue Jan 22 08:19	Construction	Fulton			Northbound I-85 FROM MILE POST 70 TO I		
1365707	GDOT Monitor	Tue Jan 22 07:55	Construction	Gwinnett			Southbound I-85 FROM MILE POST 105.05		
1365713	GDOT Monitor	Tue Jan 22 09:29	Construction	Hall			Eastbound SR 11 FROM MILE POST 8.15 T		
1365715	GDOT U	Tue Jan 22 08:46	Construction	Fulton			Northbound SR 14 FROM MILE POST 16 TO		
1365716	GDOT U	Tue Jan 22 08:46	Construction	Fulton			Southbound SR 14 FROM MILE POST 16.9		
1365722	GDOT Monitor	Tue Jan 22 08:24	Construction	Cherokee			Eastbound SR 92 FROM MILE POST 0.0 TO		
1365723	GDOT Monitor	Tue Jan 22 08:27	Construction	Cherokee			Westbound SR 92 FROM MILE POST 0.5 TO		
1365727	GDOT U	Tue Jan 22 08:31	Construction	Douglas			Southbound SR 92 FROM MILE POST 8 TO I		
1365730	GDOT Monitor	Tue Jan 22 08:36	Construction	Gwinnett			Westbound SR 316 MILE POST FROM 1.04		
1365732	GDOT U	Tue Jan 22 08:56	Construction	Fulton			Northbound SR 400 FROM MILE POST 1.47		
1365733	GDOT U	Tue Jan 22 08:41	Stall	Fulton			Southbound SR 400 NORTH OF NORTHRIDGE		

# Incident Management

Navigator - X-Win32

Incident Management

### Confirmed Incidents

Filter Tool

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1365268	GDOT Monitor	Fri Jan 18 08:09	Other Closure		Towns		Northbound /Southbound SPUR 180 MILE		
1365693	GDOT Monitor	Tue Jan 22 09:19	Other		Dade		SR 189 AT SR 157		
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1365726	GDOT Monitor	Tue Jan 22 09:29	Accident		DeKalb		Southbound I-85 AT NORTH DRUID HILLS		
1365735	GDOT Monitor	Tue Jan 22 09:02	Stall		Fulton		Northbound I -75/85 NORTH OF LANGFORD		
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1365492	GDOT Monitor	Sun Jan 20 02:17	Other		White		PLEASE READ: CONTACT PERSON FOR DIST		
1365702	GDOT U	Tue Jan 22 07:43	Construction		Columbia		Eastbound I-20 MILE POST 192 TO MILE		
1365704	GDOT U	Tue Jan 22 07:45	Construction		Columbia		Westbound I-20 FROM MILE POST 194 TO I		
1365705	GDOT U	Tue Jan 22 08:19	Construction		Fulton		Northbound I-85 FROM MILE POST 70 TO I		
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# Incident Management

Navigator - X-Win32

## Incident Management

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1365268	GDOT Monitor	Fri Jan 18 08:09	Other Closure	Towns			Northbound /Southbound SPUR 180 MILE POST 0		
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1365701	GDOT Monitor	Tue Jan					M MILE POST 271 TO MILE		
1365708	GDOT Monitor	Tue Jan					M MILE POST 62 TO MILE I		
1365709	GDOT Monitor	Tue Jan					M MILE POST 58 TO MILE I		
1365710	GDOT Monitor	Tue Jan					OM MILE POST 0.0 TO MILE		
1365712	GDOT Monitor	Tue Jan					OM MILE POST 10 TO MILE		
1365737	GDOT Monitor	Tue Jan					OM MILE POST 37 TO MILE		

### Incident Filtering Configuration

<p><b>Available Centers</b></p> <ul style="list-style-type: none"> <li>0001: Georgia DOT TMC</li> <li>0002: City of Atlanta TCC</li> <li>0003: Clayton County TCC</li> <li>0004: Cobb County TCC</li> <li>0005: DeKalb County TCC</li> <li>0006: Fulton County TCC</li> <li>0007: Gwinnett County TCC</li> <li>0008: Henry County TCC</li> <li>0009: Savannah TCC</li> <li>0010: Development Facility</li> <li>0011: City of Macon</li> </ul>	<p>Add</p> <p>Add All</p> <p>Remove</p> <p>Remove All</p>	<p><b>Selected Centers</b></p> <ul style="list-style-type: none"> <li>0001: Georgia DOT TMC</li> </ul>
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Add or remove counties that will appear in incident list

TAKE CONTROL			OPTIONS			MONITOR			
Incident Attributes	Contact List	Response Plan	Deconflict Incident	Incident Report	Sort By...	Filter By...	Incident Attributes	Contact List	Response Plan
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1365492	GDOT Monitor	Sun Jan					T PERSON FOR DIST 1 AREA		
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# Camera Selection

Georgia Navigator

System Traffic Mngt. Audio/Video ATIS Alarms/Events GIS Help

ALARM COUNT

High: 3	000000041316	1608:02/01	Estimated alarm time has expired for incident 1367169
Med: 0	000000041317	1608:02/01	Estimated alarm time has expired for incident 1367170
Low: 5	000000041318	1616:02/01	Incident 1367170 still requires locating on the GIS map
Total: 8	000000041319	1620:02/01	Sign 24 is expected to display message 1530462 but is displaying me
	000000041321	1624:02/01	Incident 1367179 still requires locating on the GIS map
	000000041322	1624:02/01	Estimated alarm time has expired for incident 1367180
	000000041323	1632:02/01	Estimated alarm time has expired for incident 1367174
	000000041324	1632:02/01	Estimated alarm time has expired for incident 1367175

Comments

Close Selection

Close Priority

Close All

A/V GUI mdemidov@TMC TMCTO3205203 (M.Demidovich)

85 at Langford Pkwy (TMCCAM001)  
75/85 S of Langford Pkwy (TMCCAM002)  
75/85 at Langford Pkwy (TMCCAM003)  
75/85 N of Langford Pkwy (TMCCAM004)  
75/85 at University Ave (TMCCAM005)  
75/85 at Pryor St (TMCCAM006)  
75/85 at Interstate 20 (TMCCAM007)  
75/85 S of Capitol Ave (TMCCAM008)  
75/85 at MLK Jr Dr (TMCCAM009)  
75/85 at Grady Curve (TMCCAM010)

Jurisdiction : GDOT THC

Control Panels : CAM VTR HUX

Release User :

Vid. Mon. THC CAM 039

COMM FAIL	COMM FAIL	COMM FAIL
COMM FAIL	COMM FAIL	COMM FAIL
COMM FAIL	COMM FAIL	COMM FAIL

Cable TV Tuners

1 CNN	2
3 CNN	4 THC

Exit

Pan / Tilt Zoon Focus Iris Azimuth Elevation Presets

**Jurisdiction**

# Camera Selection

The screenshot displays the Georgia Navigator software interface. At the top, there is a menu bar with options: System, Traffic Mngt., Audio/Video, ATIS, Alarms/Events, GIS, and Help. On the left side, there is a panel titled 'ALARM COUNT' showing High: 0, Med: 0, Low: 0, and Total: 0. Below this are buttons for 'Comments', 'Close Selection', 'Close Priority', and 'Close All'. The main window is titled 'A/V GUI mdemidov@TMC TMCTO3205203 (M.Demidovich)'. It features a list of camera locations on the left, including '85 at Langford Pkwy (TMCCAM001)', '75/85 S of Langford Pkwy (TMCCAM002)', '75/85 at Langford Pkwy (TMCCAM003)', '75/85 N of Langford Pkwy (TMCCAM004)', '75/85 at University Ave (TMCCAM005)', '75/85 at Pryor St (TMCCAM006)', '75/85 at Interstate 20 (TMCCAM007)', '75/85 S of Capitol Ave (TMCCAM008)', '75/85 at MLK Jr Dr (TMCCAM009)', and '75/85 at Grady Curve (TMCCAM010)'. A red circle highlights the 'Jurisdiction' dropdown menu, which is currently set to 'ROOT TMC'. Other dropdown menus include 'Control Panels' with options like 'Atlanta TCC', 'Cobb County TCC', 'Clayton County TCC', 'DeKalb County TCC', 'Fulton County TCC', 'Gwinnett County TCC', and 'Macon/Bibb TCC'. The interface also includes a 'Vid. Mon.' section with 'TMC CAM 039', a 'Cable TV Tuners' section with four tuners (1 CNN, 2, 3 CNN, 4 TMC), and a control panel with buttons for 'Pan / Tilt', 'Zoom', 'Focus', 'Iris' (set to 'AUTO'), 'Azimuth', 'Elevation', and 'Presets'. A 'MUX' button is also visible.

# Camera Selection

Georgia Navigator

System Traffic Mngt. Audio/Video ATIS Alarms/Events GIS Help

ALARM COUNT ▲ 000000041325 1636:02/01 Sign 24 is expected to display message 1530462 but is displaying me

High: 1  
Med: 0  
Low: 0  
Total: 1

Comments  
Close Selection  
Close Priority  
Close All

A/V GUI mdemidov@TMC TMCTO3205203 (M.Demidovich)

Barrett @ Barrett Lakes (COBCAM012)  
Barrett @ Cobb Pkwy (COBCAM013)  
Barrett @ I-75 N/B (COBCAM014)  
Barrett @ Mall Blvd (COBCAM016)  
Barrett @ I-575 (COBCAM017)  
S Cobb @ Fairground (COBCAM021)  
S Cobb Dr @ Atlanta Rd (COBCAM022)  
S Cobb Dr @ Austell Rd (COBCAM023)  
Windy Hill @ Hospital (COBCAM031)  
Windy Hill @ I-75 N/B (COBCAM032)

Jurisdiction : Cobb County TCC

Control Panels : CAM VTR MUX

Vid. Mon. TMC CAM 039

XWall		
COMM FAIL	COMM FAIL	COMM FAIL
COMM FAIL	COMM FAIL	COMM FAIL
COMM FAIL	COMM FAIL	COMM FAIL

Cable TV Tuners

1 CNN	2
3 CNN	4 TMC

Exit

Pan / Tilt Zoon Focus Iris Azimuth  
Elevation  
Presets

**Camera list for new jurisdiction appears**

# **GDOT NaviGAtor Overview**

# GDOT NaviGAtor Overview

- **Devices primarily concentrated in Metro Atlanta**
- **Some statewide elements:**
  - Hurricane evacuation system along coast
  - Weather stations statewide
  - Message signs scattered around the state
- **Responsibility for state routes across Georgia**
  - Clearinghouse for all incidents/construction

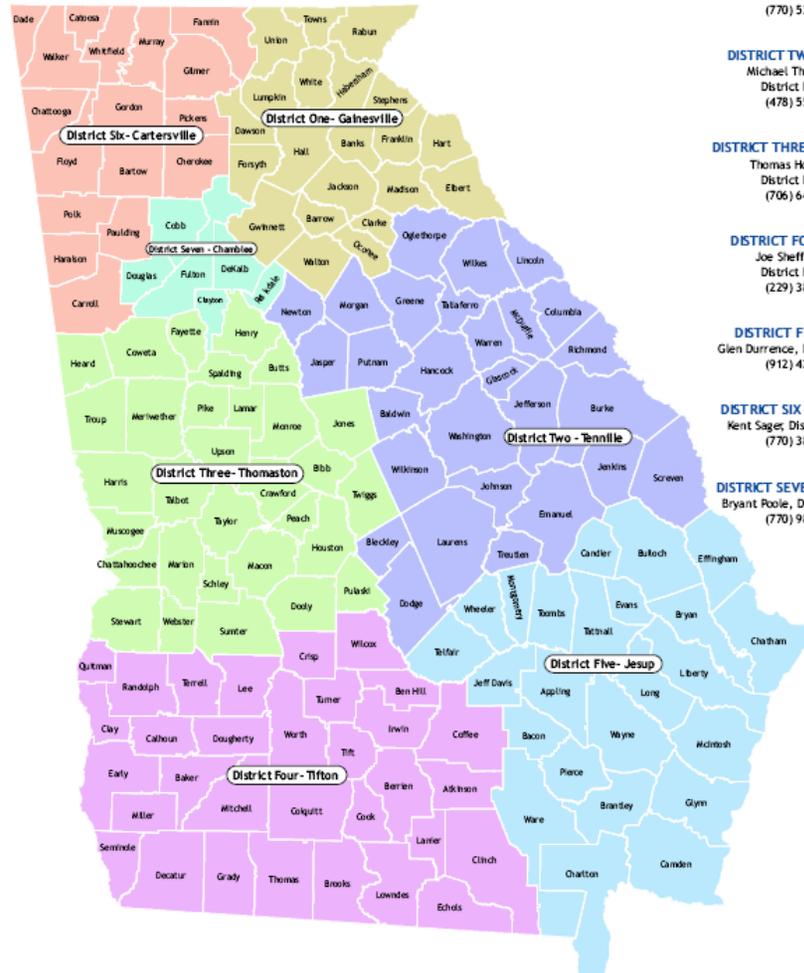


# GDOT NaviGAtor Overview

## Georgia Department of Transportation District Offices

Most ITS efforts  
led out of HQ office  
in Atlanta

One District (3) also  
active in ITS



**DISTRICT ONE - Gainesville**  
Russell McMurry, PE.  
District Engineer  
(770) 532-5526

**DISTRICT TWO - Tennesse**  
Michael Thomas, PE.  
District Engineer  
(478) 552-4601

**DISTRICT THREE - Thomaston**  
Thomas Howell, PE.  
District Engineer  
(706) 646-6500

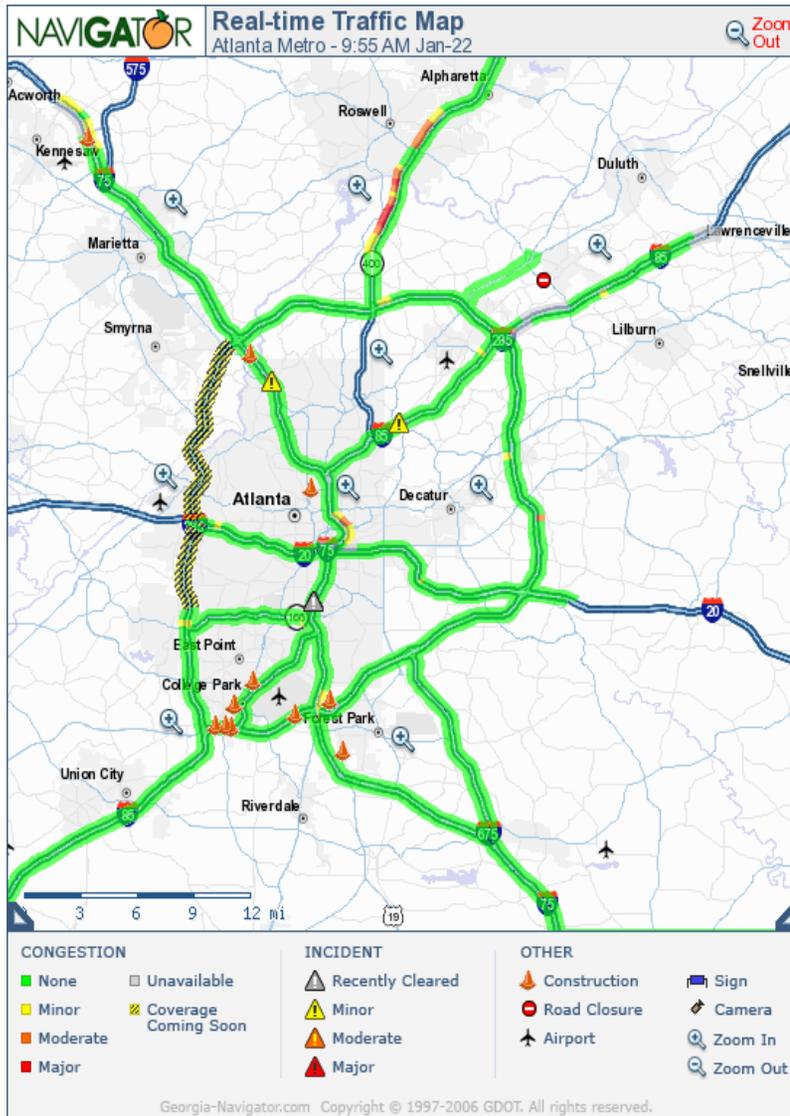
**DISTRICT FOUR - Tifton**  
Joe Sheffield, PE.  
District Engineer  
(229) 386-3280

**DISTRICT FIVE - Jesup**  
Glen Durrance, District Engineer  
(912) 427-5711

**DISTRICT SIX - Cartersville**  
Kent Sager, District Engineer  
(770) 387-3602

**DISTRICT SEVEN - Chamblee**  
Bryant Poole, District Engineer  
(770) 986-1011

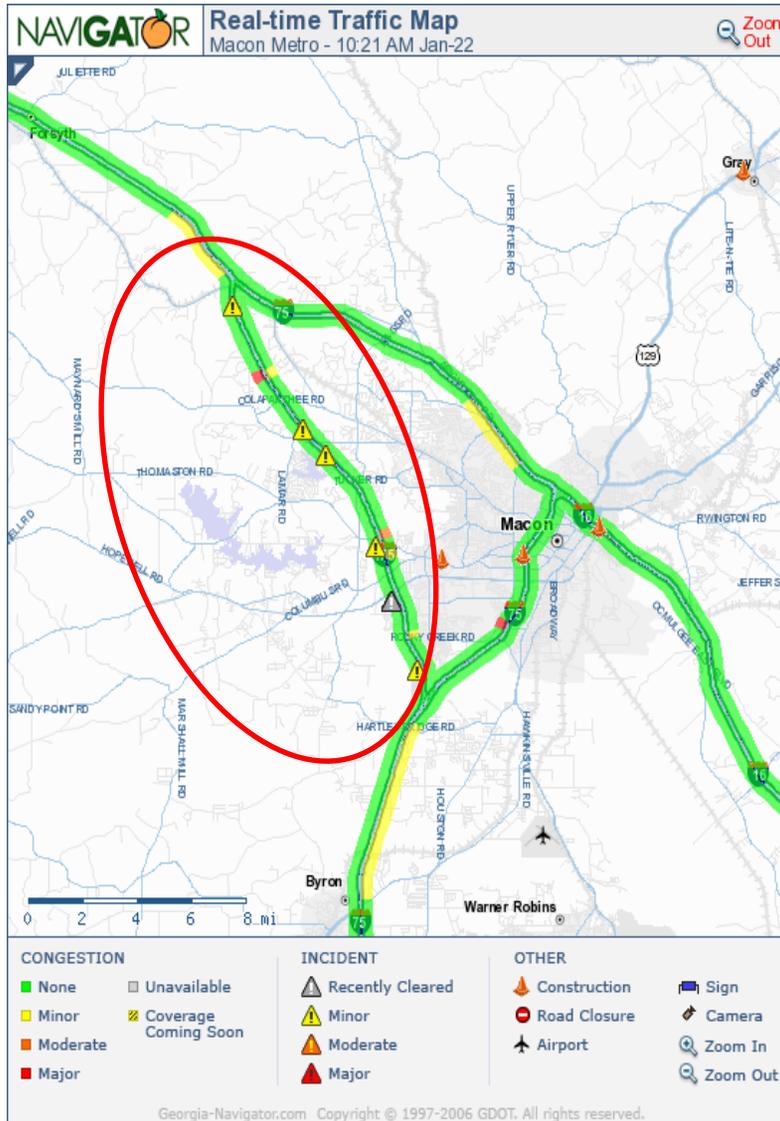
# GDOT NaviGAtor Overview



## Freeway

- 375 cameras
- 105 Variable Message Signs
- 1500 detection stations
  - Mostly video
  - Some RTMS
  - Some cell phone probes
- 8 ramp meters
  - Soon to be 140
- 180 centerline miles of coverage
  - Expanding to 260

# GDOT NaviGAtor Overview



## Macon

- 39 cameras
- 5 Variable Message Signs
- 80 detection stations
  - Mostly video
  - Some cell phone probes on roadways outside red circle
- 12 centerline miles of coverage
- Connected to Atlanta via leased fiber

# Incident Management

- **Key component of NaviGator**
- **Not good enough just to know about incidents; must take action to clear lanes**
- **GDOT has 24/7 “HERO” patrols**
  - 70-vehicle unit
  - Incident management first, motorist aid second
  - 260 miles of patrol in metro Atlanta
- **Relieves police of traffic control duties**



# Incident Management

- **Incident info shared with police via phone**
  - Also on-scene coordination relayed thru dispatch
- **Traffic Incident Management Enhancement (TIME) task force formed**
  - Made up of GDOT, police, fire, EMS, State Patrol, etc.
  - Meets frequently to discuss incident management
  - “After-action” debriefings held
- **Traffic Recovery Incentive Program (TRIP) recently kicked off**



# Media Relationships

- **Share four simultaneous video feeds with all major networks in Atlanta**
- **Media liaison employed at TMC**
- **Incident info shared both ways with media**



# Data Sharing with ISPs

- All NaviGator content freely available
- <http://data.georgia-NaviGator.com>
  - Includes all images
  - Raw station data (speeds, counts, etc)
  - Maps
- Accessed by various media outlets and traffic info consolidators



# Looking Ahead

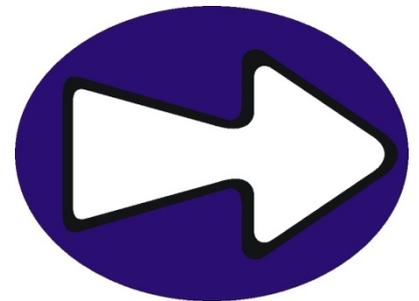


DOT



# Future Plans

- **Engage more partners**
  - Counties, including those outside metro Atlanta
  - Police/fire/rescue
  - Towing/recovery
  - Media
- **Develop browser-based software**
- **Incorporate traffic signals into NaviGator**



# Future Plans

- **Keep costs low**
- **Utilize GDOT specs for compatibility**
  - GDOT revising specs to keep options open
- **Bring more value/usefulness to locals**
- **Enrich 511 information**
  - Cover more roadways
  - Include better utility and const lane closures

# Contact Information

**Mark S. Demidovich, P.E.**

Asst. State Traffic Engineer

Georgia Dept of Transportation

935 E. Confederate Avenue, Bldg. 24

Atlanta, GA 30316

(404) 635-8014

[mdemidovich@dot.ga.gov](mailto:mdemidovich@dot.ga.gov)