

Traffic Management in Georgia



February 10, 2016



Atlanta Welcomes The World

- September, 1990: “It’s Atlanta!”
- Traffic and security critical issues
- GDOT, FHWA and local authorities collaborated, designed, and deployed an Intelligent Transportation System (ITS)
- The Result: 
- Launched April 1996 at GDOT’s new Transportation Management Center



Transportation Management Center

- **Home of NaviGAtor**
- **Operates 24 hours/day X 7 days/week X 365 days/yr**
- **Command center during emergency operations: hurricane evacuation, snow and ice**
- **Provides statewide information to authorities, public and media**



NaviGator Technology



VDS Cameras



CCTV Cameras



Ramp Meters



CMS

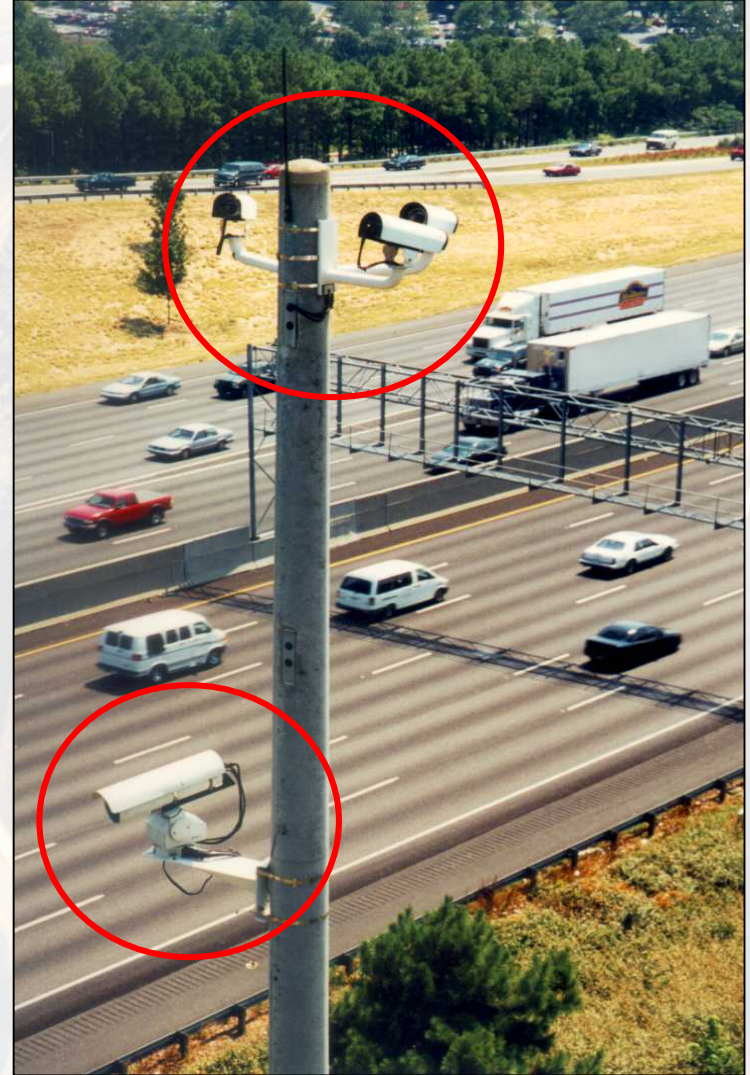
Cameras – two types

VDS (Vehicle Detection System):

- Fixed-position cameras every 1/3 mile on I-75, I-85, I-285, I-575, SR 400, US 78 and I-20
- Provide speed, volume, and occupancy data to the TMC every 20 seconds
- 2000+ video VDS stations
- 104 microwave radar stations

CCTV Cameras:

- 654 GDOT + 441 city and county



Changeable Message Signs (CMS)

- **Display automated or custom messages:**
 - Travel times
 - Incident alerts
 - Evacuation warnings
 - Child abduction information
- **141 statewide**
- **Newer signs have full matrix color capability**



Ramp Meters

- **176 in use during rush hour on 14 corridors**
- **Respond to conditions and adjust accordingly**
- **Improve merging safety**
- **Reduce congestion between 14%-39%**



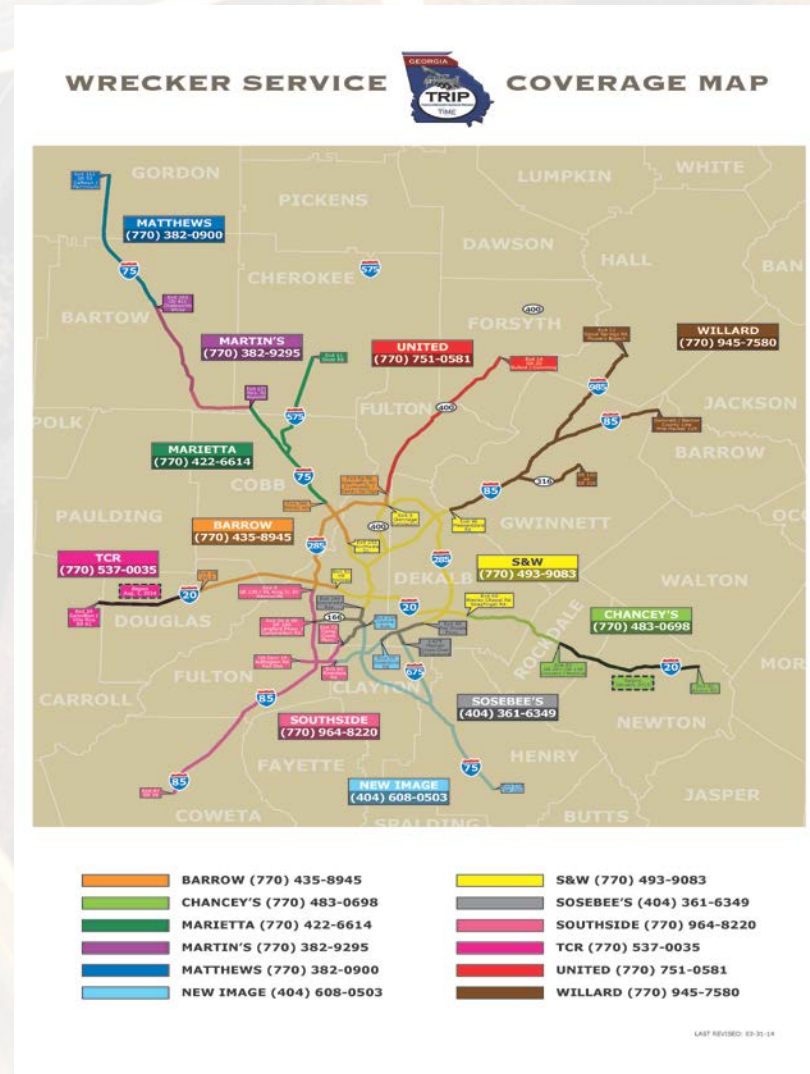
Highway Emergency Response Operator (HERO)

- Patrol 32 routes on 320 miles of metro interstates daily
- Managed in excess of one million incidents since launch
- Trained as first responders
 - 360 hours in class
 - 200 hours on the road
- Trucks carry medical bags, jumper cables, tire jacks and can tow up to 80,000 lbs



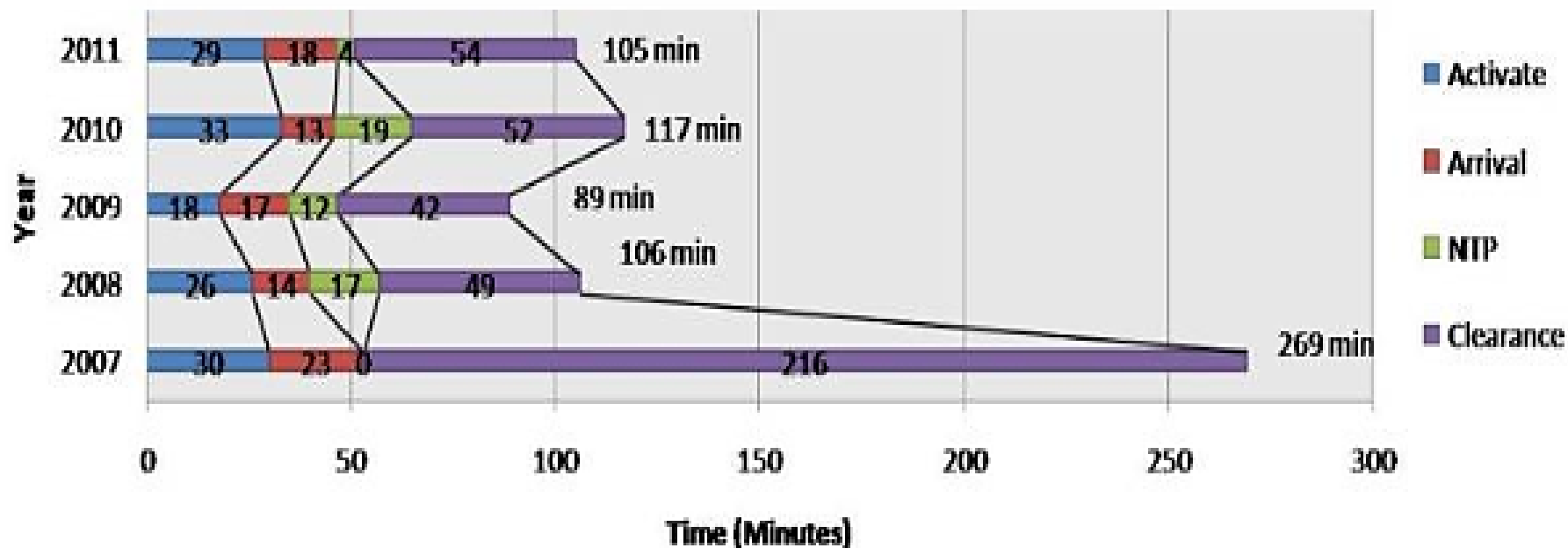
The TRIP Program

- **TRIP – Towing, Recovery and Incentive Program**
- **Cash incentives for quick clearance of large commercial vehicle incidents**
- **TRIP towing operators must be pre-qualified**



Incident Duration

Time to Roadway Clearance 2007-2011



TRIP Incidents cleared an average of 165 minutes faster

Regional Traffic Operations Program (RTOP)

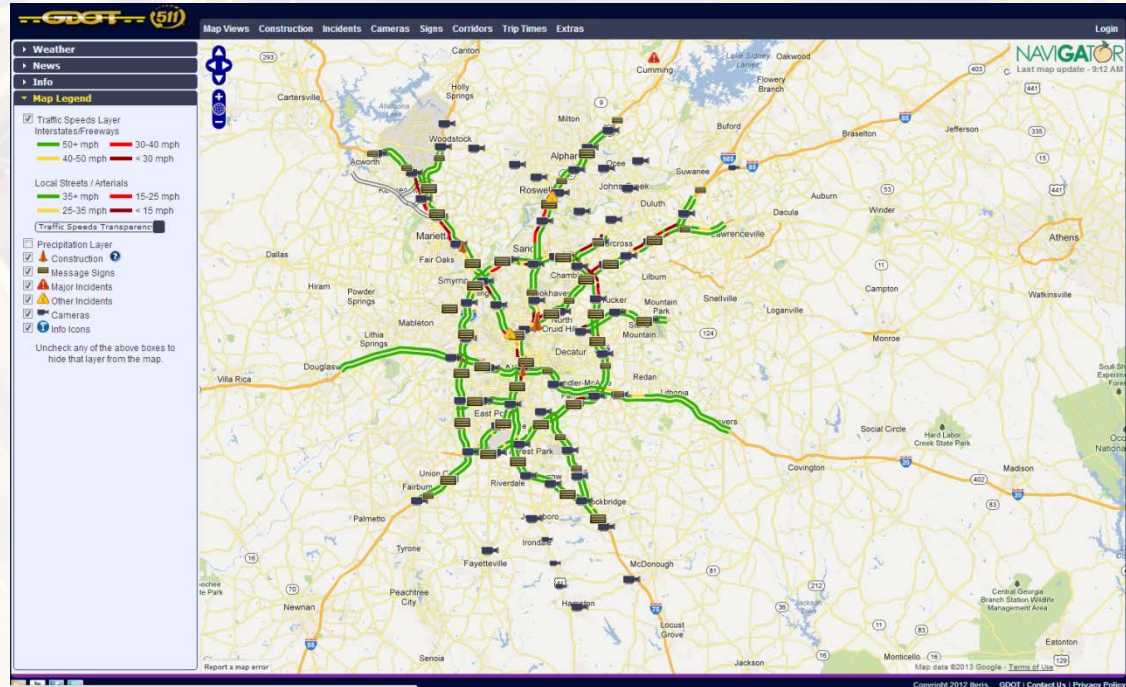
Mission:

To increase travel throughput by minimizing congestion and reducing delays along regional commuter corridors through improved signal operations.

- **Regional Focus**
 - ✓ Mainline Priority
 - ✓ Cross-Jurisdictional
- **Actively Manage Traffic Flow**
- **Traffic Signal Maintenance and Repair**
- **Benefits**
 - ✓ Reduced number of stops by 5.9%
 - ✓ Eliminated 1.1 million hours of delay
 - ✓ Saved 680,583 gallons of fuel
 - ✓ Increased throughput by 4%

Georgia 511

- “One-stop” travel info portal for Georgia
- Call from any phone
- Option to use automated system or live Operator
- Transit and other travel options also reachable
- Data provided via XML feed from NaviGator
- 511 website:
 - www.511ga.org





Questions?

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