

ITS Comprehensive Maintenance Contract (CMC)

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**CMC-
A Performance-based
Contract for the
Maintenance of ITS
Devices in
Metro Atlanta**

NAVIGATOR 

Topics

- NaviGATOR background
- Why the need for a CMC ?
- Selection process
- Contract details
- Progress to Date
- Challenges and Successes



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Navigator Background

- “Navigator” is umbrella term for ITS program in GA
- First went live in 1996 prior to Olympic Games
- Concentrated in metro Atlanta, with some statewide devices
- Headquartered in the TMC in Atlanta.

The logo for Navigator features the word "NAVIGATOR" in a bold, green, sans-serif font. The letter "O" is replaced by a stylized orange with a green leaf on top.

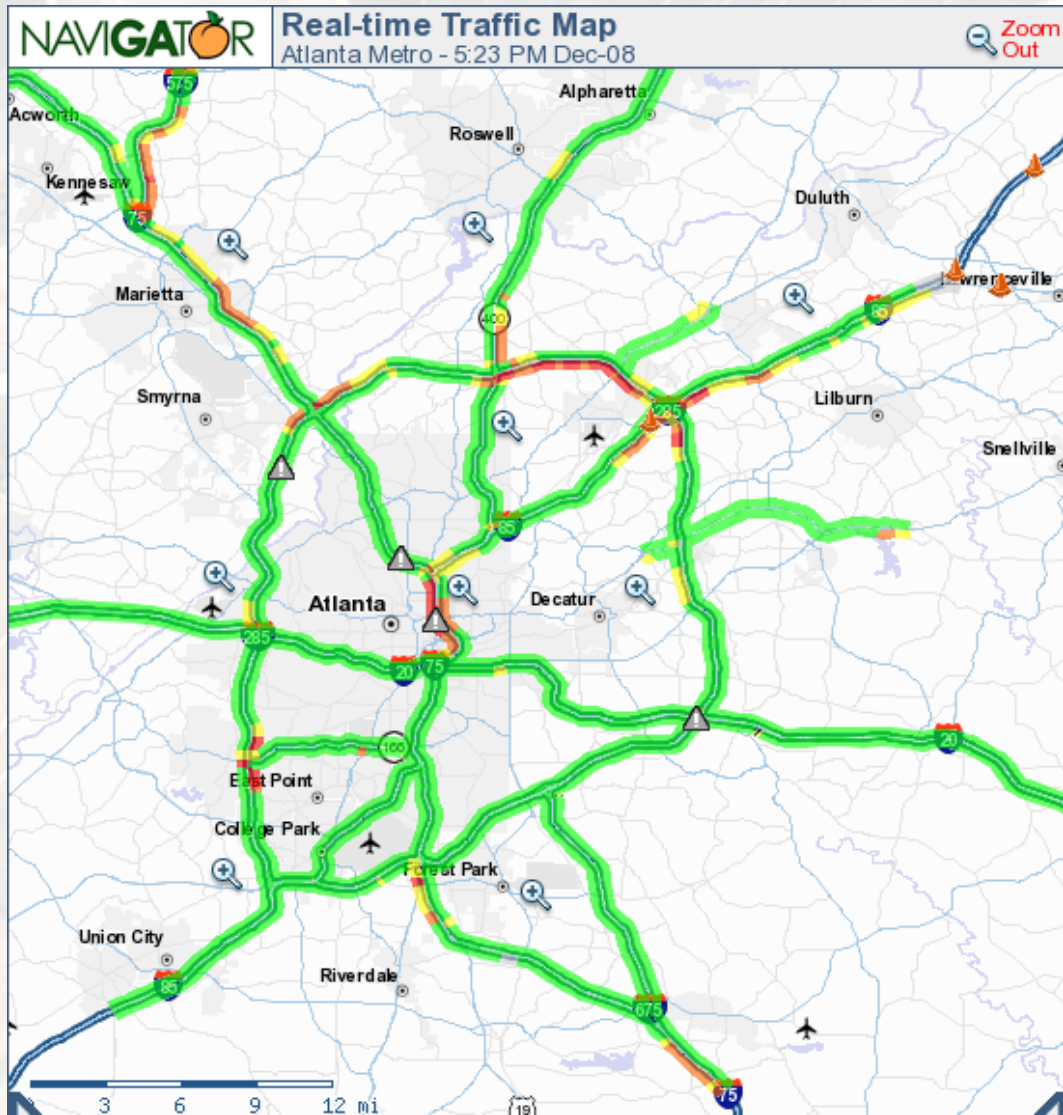
Atlanta-area System Size

(Freeway Only)

- 525 CCTV Cameras
- 116 Changeable Message Signs
- 2000 Vehicle Detection Stations (mostly video)
- 169 ramp meters
- 28 hubs
- 245 centerline miles of freeway coverage



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Colorized roadways have “full” coverage – meaning:

- CCTVs at 1 mile spacing
- Detection at 1/3 mi spacing
- CMS around 4-5 mi spacing.
- Also, most ramps metered

Why the need for this program?

- System size outgrew GDOT ITS Maintenance resources
- Increasing in-house forces not an option
- A need to replace ALL legacy devices
 - Unsupported technologies
 - Exceeded service life



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Previous Maint. Contracts

GDOT has had other ITS Maintenance Contracts in the past

- Camera Maintenance Contract
- Message Sign Maintenance Contract



Main Difference: GDOT supplied materials, while Contractor provided labor.
Also, mainly geared towards maintaining, rather than replacing, existing devices

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Selection process

Two step process

- GDOT put out RFP/RFQ
 - listed all devices to be replaced
 - Scope of Maintenance work
 - Performance Criteria
- Contractors responded with Proposal. GDOT shortlisted (3).

Stage 2: Contractors submitted more detailed maintenance and replacement plan. Scoring slate wiped clean.



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Selection process

Proposals included technical volume and cost volume (line items for daily maint fee for each device type, replacement costs and optional services)

Selection was made on a weighted basis:

- 70% Technical - stability (15%), experience/quals (40%), suitability (25%) and performance (20%)
- 30% Cost (separate and sealed)



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Selection process

Also held interviews (worth 150 pts)

- Methodologies presented
- Solution Communication



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Contract Team

Serco (Prime)

- World Fiber
- Arcadis
- Iteris



Payment Structure

****Maintenance of devices is paid on a per device / per calendar day basis****

If the device works, payment is made – if it doesn't, no payment made

Incentives (by device type):

GDOT will pay 103% of total if working daily % exceeds 93%

GDOT will pay 105% of total if working daily % exceeds 95%

Disincentives

If less than 90% working total, GDOT pays 80% of device payout

If less than 80% working total, GDOT pays 70% of device payout

If less than 70% working total, GDOT pays 60% of device payout



Payment Structure



Critical devices – several devices have been identified as “critical” to the system and have special time-defined performance measures.



Critical: GDOT deducts \$500 each day for more than 48 hrs of outage

Non critical: GDOT deducts \$100 each day for more than 30 days outage (45 for VDS)

(All hubs are critical, no VDS or RMS are critical)

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Replacement Phase

First year of contract included replacement task order.
During this time:

Device categories scheduled for replacement (CMS, CCTV and detection) were paid as follows:



Full bid price as if system was 90% operational
(no incentives and no disincentives)
But only if working



What does program include?

All ITS Field Devices in metro Atlanta:

- CCTV Cameras
- Changeable Message Signs
- Video Detection Systems
- Radar Detection Systems
- Ramp Meters
- Hubs



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What does program NOT include?

ITS Field Devices outside of metro Atlanta

- Hurricane evacuation system on coast
- Message signs around state
- Count stations / ATRs around state
- Cameras around state



Network: up to the face of the switch

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Schedule

- Master Agreement Signed on: 1/14/10
- Task Order 1 NTP given on: 2/11/10
- Contract duration: 5 years
- NO “renewals”



Task Orders

- 1: Routine Maint for 525 CCTVs, 1681 VDS, 102 RDS, 112 CMS, 169 ramp meters, 39 PDS, 28 hub
- 2: Replace non-operable CCTV devices (200)
- 3: Replace non-operable VDS (585)
- 4: Replace non-operable CMS (43)
- 5: Optional / emergency services



Maximo

- Trouble-reporting tool
- Device monitoring
- Work-flow management / ticketing
- Daily up-time percentages
- Asset management thru bar-coding
- Eliminates latency in receiving word of outages



Progress to Date (replacement component)

CCTV Cameras replaced: 160

CMS Replaced: 22

VDS Cameras replaced: 460



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Challenges and Successes

Ramp Meters – difficult to monitor status. No auto alerts received. Did a Supplemental to modify operational criteria - incl IVDS, loops.



Invoicing – difficult/resource intensive to assess working % of VDS. Contractor provides monitoring system. GDOT spot-checks/verifies.



Detection System – Gaps filled. Travel times up.

Message Signs – oldest signs gone.

Questions?

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