Transportation Systems Management & Operations Capability Maturity Self Assessment Workshop

State: Georgia Workshop Date: December 5, 2013

Capability Maturity Implementation Plan

This memo provides a set of prioritized capability maturity workshop actions with suggested steps for advancing to the next maturity levels, organized as an implementation plan.

Background for Host State Agency

- This document contains two sections:
 - 1. Your Capability Maturity Workshop output of strengths, weaknesses, and actions along with (for the lowest capability level) reformulated/consolidated actions with suggested steps
 - 2. Implementation Plan Templates for conversion of these reformulated/consolidated actions into your Implementation Plan (IP) actions and tasks
- The Workshop dimensions with the lowest level of capability have been targeted as priorities for inclusion in the IP. For these priority dimensions, the most important workshop actions have been identified. These may have been restated slightly or combined (reformulated/consolidated)
- "Good Practice" steps have been suggested for each action to help the Host State identify tasks and subtasks to implement the action these may be further modified, combined, and detailed as appropriate to better fit the local context
- The Implementation Plan Templates are standardized with regard to the specification of responsibilities, roles, resources, schedule, products, etc. for each task or set of tasks

Host State Agency Responsibilities in Preparing the Implementation Plan Templates

- 1. The Host state will review the priority actions (and suggested steps) to estimate the level of effort that might be involved compared to staff capacity. Implementing all the priority actions may not be feasible in the initial effort and can be addressed subsequently. The selection of actions to be pursued will be discussed among the Host State and FHWA/AASHTO
- 2. The Host State may wish to modify the reformulated/consolidated Workshop actions or select other actions from the Workshop that relate to the lowest level dimension
- 3. Prior to the IP Webinar/Workshop, the Host State will fill in the IP Templates for each selected action, in effect creating a "skeletal work program" of tasks (and perhaps subtasks) for implementation
- 4. The generic "good practice" steps (suggested steps) can be used as a point of departure to form tasks for the IP Templates for each action. The suggested steps may be combined into a smaller number of tasks
- 5. For each set of tasks to implement an action, the IP Templates include the needed work plan specifications related to task execution (responsibilities, schedules, products etc.) that the Host State will identify for discussion with the Consultant Team and FHWA/AASTHO before and during the IP Webinar/Workshop
- 6. The IP Templates presume that each action with its set of tasks can be considered a coordinated effort of one staff team so that the single specification of responsibilities, roles, resources, schedules, products, etc. apply to all the tasks on that action template. However, the Host State may want to specify these details for each task or subset of tasks. The Template's task details can simply be reproduced and completed for each
- 7. The completed IP Templates (with the specifications for tasks) will be the focus of a joint discussion at the IP Webinar/Workshop. The Consultant Team's role will be limited to help ensure that the IP Templates are logically related to the action items identified in the Workshop and focused on capability improvement.



Transportation Systems Management & Operations Capability Maturity Self Assessment Workshop

> Section 1: Prioritized Capability Maturity Workshop Actions with Suggested Steps

Business Processes: Planning and Programming Workshop Outputs

Strengths Ci	ited		Weaknes	sses Cited	
 Some ongoing review of ITS Strategic Deployment Plan, in part triggered by success of RTOP Recent expanded use of TTC in Savannah region (but staffing an issue) Success with public communication through Twitter (Cobb County) Good collaborative relationship between GDOT and FHWA to support operations with available resources Good relationship between GDOT operations and planning divisions Four-year operations plan in place (with flexibility) that prioritizes investments within lump sum budgeting process 		 Need to capitalize on opportunities for updating SDP Risk that future commissioner/senior management may not have an operations background could lead to diminished top-level understanding and support Potential need for a more policy driven/institutional approach to supporting operations needs/funding/investment decisions rather than "lump sum" approach Challenge with generating performance measure (B/C) justification to support investment decisions Need to identify and apply performance measures that "make the business case" and are externally understood/meaningful Local jurisdiction challenges: Incorporation of ITS into roadway project planning and programming upfront at the local level, despite the SDP Cataloging needs and lessons learned from operations activities outside Metro Atlanta Demonstrating value of operations strategies/projects, showing that staff are not just "watching cameras" Obtaining resources (funding and staff) Information sharing with the public at the county level / among 			
Level	1 – Performed	2 – Managed		3 — Integrated	4 – Optimizing
Criteria	Each jurisdiction doing its own thing according to individual priorities and capabilities	Consensus regional approach developed regarding TSM&O goals, deficiencies, B/C, networks, strategies and common priorities		Regional program integrated into jurisdictions' overall multimodal transportation plan with related staged program	TSM&O integrated into jurisdictions' multi-sectoral plans and programs, based on a formal, continuing planning processes
Consensus		2.5			
				e to the Next Level	

- Develop an ITS strategic plan with collaborative focus that incorporates district input/vision of operations •
- Integrate planning for signal maintenance and upgrades into asset management project prioritization tool (GAMS) •
- Prepare outreach/communication materials (PowerPoint, brochures, videos) to make the case for operational effectiveness and educate • future senior management/decision makers, as well as others as necessary to sustain a culture supportive of operations

	Products and Desired Outcomes	Suggested Steps to Implement Actions These are a resource for the host state to draw upon in developing task(s) for this action
Plan with collaborativeTSfocus that incorporates(tdistricts and a statewideca	Statewide/Regional SM&O Plan terminology; may also call this the ITS Strategic Plan)	 Compile an inventory of existing TSM&O/ITS activities/products/benefits for use as a tool in convincing others of the need for an updated TSM&O strategy and plan. Consider audiences/ stakeholders and dissemination means. Identify any specific focus areas (geographic, arterial ops, ICM, etc.) for the plan to address and convene integrated/inclusive working group/planning committee including potential partners in service delivery (districts). Review examples of statewide/regional TSM&O plans and architectures from peer states/regions and planning guidance from FHWA/AASHTO Identify and/or update mission, goals, and objectives, and relate to easily identifiable needs and deficiencies (also see Culture dimension). Assess potential need for a more policy driven/institutional approaches to support operations and include performance measures that "make the business case" and are externally

Consultant Reformulated/Consolidated Actions for Implementation Plan (post-workshop)

		 Update statewide and regional architectures by building on current state of practice (as defined in step #1) reflecting ongoing/planned activities in existing architectures/concepts of operations/systems Identify improvement actions (systems, strategies, and procedures), timeframes and participants including those focused on process and procedure improvements with very modest costs Review long and short-term investment options (capital, maintenance and staffing) in context of alternative levels of expenditure and resource availability and develop program(s) and schedules (s) for improvement actions, linking them to updated architectures Document revised ITS Strategic Plan (or TSM&O Plan).
Develop a process to integrate signal maintenance and upgrades into asset management (GAMS)	Integrated asset management activities with ITS assets.	 Document current planning process for signal maintenance and upgrades. Determine if any updates are needed for this process Convene meeting(s) of RTOP stakeholders and GAMS stakeholders to discuss avenues for integrating existing GDOT-owned signals into GAMS. Develop and document a process to integrate signal maintenance and upgrades into GAMS.

understood/meaningful.

Systems and Technology

Workshop Outputs

Strengths Ci	ted		Weaknesses Cited		
 solution ITS arch among t relates i Good re software Commo GDOT se through 	ed process in place for deploying s, including use of ConOps itecture in place that supports re technology selection and deployn t to needed functionalities lationship with IT department (e. e for cameras, ITS device mainter n statewide traffic signal controll tecks out and applies new technol participation in national forums encies use qualified products list	lationships nent and g. selecting nance) er platform ogies (ITS-A)	 issues (QPL, p with Navigato Difficult to kee performance f Expected grow Staffing challe (e.g. testing) Challenges wit a larger project 	ving pains from planned software nges at local level makes rigorous h individual/small ITS procureme	ting consultant help, integrating logy; potential need for a formal upgrade for signal controllers technology selection difficult nts that are not associated with
Level	1 – Performed	2 – Manageo	1	3 — Integrated	4 – Optimizing
Criteria	Ad hoc approaches to system implementation without consideration of systems engineering and appropriate procurement processes	documented included; app	developed and with costs	Systems & technology standardized and integrated on a statewide basis (including arterial focus) with other related processes and training as appropriate	Architectures and technology routinely upgraded to improve performance; systems integration/interoperability maintained on continuing basis
Consensus				3	
		Workshop	Actions to Advance	to the Next Level	
(asset mSolicit lo incorport	anagement software tool) to hel	p alleviate bur sistance on sig RFP (e.g. thos	den on local staff nal controller upgra e for training)	the QPL up to date in part by cap de; embody actions in detailed ro	llout plan; identify and

- Address need for improved local jurisdiction-GDOT communication/technical assistance through the restarted Navigator Users Group [see Collaboration]
- Reorient standards away from technical specifics to functional requirements to allow improved ability to keep pace with technology
- See actions [Business Processes, Collaboration] regarding education and collaboration to address maximizing full capability of technology

Consultant Reformulated/Consolidated Actions for Implementation Plan (post-workshop)

Actions	Products and Desired Outcomes	Suggested Steps to Implement Actions These are a resource for the host state to draw upon in developing task(s) for this action
No priority actions. Core team may decide to add if this dimension is a focus for the region.		1.

Performance Measurement

Workshop Outputs

Strengths Cited	Weaknesses Cited
 Analysis, before-and-after studies, benefits assessments, etc. routinely applied, especially driven by demand to demonstrate benefits and successes to public Performance measures reviewed at regular division directors meetings, ideas for improvement generated Evolution of performance measurement at GDOT has led to measuring only what is useful, not simply what can be measured Performance dashboard designed for public, legislature, and governor audiences Internal dashboard with actionable measures that support public-facing, big-picture dashboard to be launched early 2014 Efforts underway to fill gaps in data and gain a better understanding of traffic congestion/reliability measures (good preparation in advance of MAP-21) 	 Room for improvement in developing high-level benefit-cost evaluations to influence upper management decision making Greater understanding of ongoing maintenance (lifecycle) costs of capital projects needed in order to make truer comparisons of capital vs. operations investments Performance monitoring on an ongoing basis needs to be more formally applied to keep deployments and programs operating as intended over time Customer service / satisfaction measures lacking Need for improvements at district and local levels: Potential for greater utilization of collected performance measures/data in districts (for management and demonstrating value) Need to make determination at local jurisdiction level as to what PMs are relevant to decision makers (e.g. measures indicate congestion increasing, but also throughput due to RTOP); data is available to answer questions, but is not proactively broadcasted Local governments would benefit from standardization and direction on how to collect, utilize, and report PMs (e.g. to make the case, conduct preventive maintenance) Local jurisdictions would benefit from GDOT assistance on signal timing PMs and data collection (some RTOP corridors monitored)

Level	1 — Performed	2 — Managed	3 — Integrated	4 – Optimizing
Criteria	Some outputs measured and reported	Output data used directly for after-action debriefings and improvements; data easily available and dashboarded	Outcome measures identified (networks, modes, impacts) and routinely utilized for objective- based program improvements	Performance measures reported internally for utilization and externally for accountability and program justification
Consensus			3	

Workshop Actions to Advance to the Next Level

- Identify and develop the most important performance measures (especially for Traffic Operations Division) for Phase II of the internal dashboard rollout
- Offer training program associated with rollout for internal dashboard to external GDOT partners (in addition to internal audiences of Division Directors)
- Identify opportunities for assistance and coordination between GDOT, MPOs, and local jurisdictions with respect to MAP-21 performance measure requirements and arterial performance measures to achieve standardization across partners/jurisdictions
- Develop and incorporate automated generation of data analysis outcomes associated with project performance evaluations
- Publish TMC weekly report on Navigator and/or GDOT website
- Leverage GAMS development to gain better understanding of long-term lifecycle costs and document the tradeoffs among categories of future preventative maintenance set-asides (e.g. pavement vs. operations)

Actions	Products and Desired Outcomes	Suggested Steps to Implement Actions These are a resource for the host state to draw upon in developing task(s) for this action
Identify and develop the most important performance measures (especially for Traffic Operations Division) for Phase II of the internal dashboard rollout	Integrated outcome and output measures	 For annual reporting, tie outcome measures to the output measures used in the monthly NaviGAtor reports For internal dashboard, ensure that "drill-down can be performed for output measures at the corridor level Coordinate outcome measures (e.g., congestion level, reliability) with other units and agencies (e.g., emergency responders work zones, winter maintenance, CMP for major MPOs) – make sure they understand their contribution to overall mobility levels

Consultant Reformulated/Consolidated Actions for Implementation Plan (post-workshop)

Strengths C	ited	We	Weaknesses Cited		
 Marketing campaign underway for HERO program (engaging media, branding, anniversary acknowledgment) Upper management supportive and receptive to operations improvements and benefits; operations has a "seat at the table" 		• eptive	 No mechanism for packaging and communicating aggregate effect of multiple operations strategies and programs for public understanding (understanding is typically at the individual's level) Management culture among local jurisdictions not operations oriented Need to expand operations message beyond Metro Atlanta to statewide 		regate effect of multiple canding (understanding is erations oriented tlanta to statewide fic issues to sustain economic n planning/zoning and traffic
Level	1 – Performed	2 — Manage	ed	3 — Integrated	4 – Optimizing
Criteria	Individual Staff champions promote TSM&0	-	s' senior nt understands iness case and	Jurisdictions' mission identifies TSM&O and benefits with formal program and achieves wide	Customer mobility service commitment accountability accepted as formal, top level
		educates de makers/put		public visibility/understanding	core program of all jurisdictions
Consensus					

Culture Workshop Outputs

• Conduct proactive relationship building with public service providers to deliver consistent message/information to the public

- Identify opportunities to demonstrate successful practices and benefits of operations strategies (e.g. w/special events) to local jurisdictions that have not embraced them through live peer demonstration or illustrative case demonstration; use them to help change mindsets
- Formalize and increase demonstration and communication (advertising) of the benefits of RTOP (use model of outreach for MTOP and PTOP)
 Evaluate opportunities/feasibility of engaging communications/marketing specialists (GDOT in-house communication staff, district PIOs);
- leverage power of media to inform and make the case to legislators

Consultant Reformulated/Consolidated Actions for Implementation Plan (post-workshop)

Actions	Products and Desired Outcomes	Suggested Steps to Implement Actions These are a resource for the host state to draw upon in developing task(s) for this action	
Conduct proactive relationship building with public service providers.	Outreach materials specific to public service providers	 Using materials developed for the Business Case (under the Business Process Actions) reach out t public service providers and determine what types of targeted communications this audience would need to better understand collaborative resources. Convene a forum** and provide for opportunities for open two-sided dialog between TSM&O stakeholders and public service stakeholders. Document next steps to define positive steps to make progress for increased coordination and workings between these two stakeholder groups. ** may be addressed with restart of NaviGAtor User Group. 	
Develop outreach and communications materials to promote TSM&O. Document lessons learned and success stories to broadcast success of TSM&O program.	Business case document and related communications material designed to justify and promote TSM&O capability and strategy improvements as a basis for resource allocation. Outreach materials on success stories to feed the Business Case	 Establish cross-discipline interagency working group** to develop consensus business case based on performance data – and define purpose, scope, and audience (internal and external) for business case. Identify key audiences and "hot button" issues – and promising media formats and communication strategies. Review peer experience with business case development and FHWA/AASHTO/SHRP2 materials regarding approach to identification and presentation of costs, benefits, payoffs, and expected outcomes. Assess relative B/C compared to non-TSM&O alternatives. Identify and select case study opportunities to document and support outreach materials being developed as part of action items under Business Processes dimension ("develop Business Case"): Using the MTOP and PTOP models generate targeted outreach materials that showcase various success stories and benefits of the RTOP program Provide for varied RTOP case studies to exhibit corridor, statewide and other specific successes. Look for opportunities to present materials at special events that attract TSM&O stakeholders Coordinate with and provide input to the Business Case documentation. 	

6. Identify and select data and analytics, identify project-type targets, and identify full range of cost

Develop LTAP GDOT Course on ITS and signals. Investigate ITS training, standards, and certification opportunities for GDOT forces and local agencies.

Training resources for TSM&0

- and benefit categories of interest (including monetary and non-monetary) for TSM&O alternatives.
 - Develop agency specific case study (that will lead to outreach piece) on the RTOP program.
- 7. Garner any support and/or resources needed from State Public Information Office.
- Identify promising formats and communication strategies for business case's targeted audiences and construct the business case outputs in terms of technical memo and related presentations.
 ** may be addressed with restart of NaviGAtor User Group.
- 1. Convene a working group to assess current training resources specific to ITS and operations
- 2. Engage local university staff to support this working group
- 3. Define training needs specific to TSM&O within GDOT
- 4. Work with FHWA, NHI, and AASHTO to determine federal training resources
- 5. Develop a library of training resources for TSM&O staff
- 6. Develop LTAP GDOT course on ITS and signals
- 7. Establish ITS training standards/certification for both GDOT and local jurisdictions, as well as their contractors; develop a plan for tying certification to training courses and attaching outcome to higher level title
- 8. Identify opportunities to expose agency interns to operations activities/careers

Organization and Staffing

Workshop Outputs

Strengths C	ited	Weaknesses Cited		
 Satisfaction with GDOT organizational structure Ability to be flexible with organization and reporting structure when the need is identified; little resistance to change Ongoing workforce planning effort within an environment of shrinking workforce Much ITS activity takes place at HQ level (not necessarily good or bad) 		 Potential opportunity to redistribute HQ ITS maintenance workload to districts Local jurisdictions understaffed and suffer from lack of leadership's understanding of ITS maintenance needs IT staff turnover leads to need to rebuild relationships Acquiring IT-oriented skill sets among operations staff takes time and then opens that person up to advancement elsewhere (often private sector) Potential need for formal training/certification for operators (may benefit from an advisory national standard as well) Field technician skills definition/level a challenge to pinpoint and train for Recruitment challenges due to lack of merit increases, finding appropriate skill sets Opportunity to better capitalize on interns (GDOT slot limitations) 		
Level	1 – Performed	2 – Managed	3 — Integrated	4 – Optimizing
Criteria	TSM&O added on to units within existing structure and staffing dependent on technical champions	TSM&O-specific organizational concept developed within/among jurisdictions with core capacity needs identified, collaboration takes place	TSM&O Managers have direct report to top management; Job specs, certification and training for core positions	TSM&O senior managers at equivalent level with other jurisdiction services and staff professionalized
Consensus		2.5		
		Workshop Actions to Advance to	the Next Level	
	ons under Culture for communicating D LTAP GDOT course on ITS and signals	, , ,	ite senior leadership, especially a	among local jurisdictions)

• Establish ITS training standards/certification for both GDOT and local jurisdictions, as well as their contractors; lay out plan for tying certification to training courses and attaching outcome to higher level title

• Identify opportunities to expose agency interns to operations activities/careers

Consultant Reformulated/Consolidated Actions for Implementation Plan (post-workshop)

Actions	Products and Desired Outcomes	Suggested Steps to Implement Actions These are a resource for the host state to draw upon in developing task(s) for this action
See combined actions under Culture dimension		1.

Collaboration

Workshop Outputs

Strengths Ci	ited	Weaknesses Cited		
 involved lights to Recent a Navigate CAD sys PMs and Discussi GSP IM building continue 	s made in partnerships with coror d in IM, success in issuing them fla o arrive on scene quicker (permits addition of part-time GSP personn or allows good access to unintegra stem, permits ability to discuss issu d how to address them (supported ion of GSP collocation training supported by GDOT, curre g the case for sustainable funding t ed training IM training taking place	shing after Olympics for DPS) active ated GSP OREduction and ended down of the show to collabor arterial IM collabor arterial IM collabor prioritization, a (focus has been on the show to expand on t	mmittee (and Operations/Users Gr to carry forward operations activities of opportunity for local agencies/di on in engagement of high level de tand operations benefits y next steps for newly integrated loc atively operate and communicate, boration GDOT collaboration needed for lo nd programming, especially identified on start-up activities with less cor l on RTOP success to better collabor ampion for state level coroner sign	ies developed then no longer istricts to learn and share ideas cision makers to help them ocal jurisdictions into Navigator how to manage/conduct ng-range planning, fication of maintenance funding nsideration longer term) orate/integrate arterial
Level	1 – Performed	2 – Managed	3 — Integrated	4 – Optimizing
Criteria	Relationships ad hoc, and on personal basis (public-public, public-private)	Objectives, strategies and performance measures aligned among organized key players (transportation and public safety agencies) with after-action debriefing	Rationalization/sharing/formaliz ation of responsibilities among key players through co-training, formal agreements and incentives	High level of TSM&O coordination among owner/operators (state, local, private)
Consensus		2.0		
	·	Workshop Actions to Advance	to the Next Level	
NavigateDefine c	or 2, to discuss SOPs on arterials; data stakeholder group for data sh	and use it as a forum for other co paring / sharing resources on perf	ITS Steering Committee) to examin Ilaborative activities formance data (Atlanta Metro or st formance measure data vs. real time	atewide) and discuss issues of

- Formulate plan for local jurisdiction signal maintenance responsibility (consider involvement of districts and level of formalization)
- Formulate strategy for bringing partners on board to Open Roads policy

Consultant Reformulated/Consolidated Actions for Implementation Plan (post-workshop)

Actions	Products and Desired Outcomes	Suggested Steps to Implement Actions These are a resource for the host state to draw upon in developing task(s) for this action
Perform an overall assessment of stakeholder groups and interest areas that will advance statewide operations and TSM&O efforts. Reconstitute NaviGAtor Users Group.	Re-invigorated Users Group	 Dust off historical NaviGAtor user group participants listing, assess and update to present day stakeholders. Broaden as necessary. Document the management of and an updated mission and purpose of this Users Group Determine schedule for engaging this Users Group (monthly, quarterly, etc.) Convene updated User Group with appropriate fanfare to re-engage participants. Prioritize the following as near-term agenda items: a. Define data stakeholder group for data sharing / sharing resources on performance data (Atlanta Metro or statewide) b. Define issues of integration and coordination; consider distinction between historical performance measure data vs. real time data (incident, dispatch data, etc.) c. Formulate plan for local jurisdiction signal maintenance responsibility (consider involvement of districts and level of formalization) d. Formulate strategy for bringing partners on board to Open Roads policy e. Coordinate GDOT operations deployment planning with major MPOs

Transportation Systems Management & Operations Capability Maturity Self Assessment Workshop

Section 2: Capability Maturity Implementation Plan Templates

See page 1 for instructions to host state on completing these Implementation Plan Templates

Business Processes (Planning and Programming) Implementation Plan Template

Details for Action 1 of 2 Host State may wish to use the reformulated/consolidated Workshop actions, modify them, or select other actions from the Workshop that relate to the lowest level dimension. This table should be reproduced for each action associated with this dimension.		
Action Description	Update the ITS Strategic Plan with collaborative focus that incorporates districts and a statewide vision.	
Products and Desired Outcomes	Statewide/Regional ITS Strategic Plan	
Task(s) / Subtask(s)	 Compile an inventory of existing TSM&O/ITS activities/products/benefits for use as a tool in convincing others of the need for an updated TSM&O strategy and plan. Consider audiences/ stakeholders and dissemination means. Identify any specific focus areas (geographic, arterial ops, ICM, etc.) for the plan to address and convene integrated/inclusive working group/planning committee including potential partners in service delivery (districts). Review examples of statewide/regional TSM&O plans and architectures from peer states/regions and planning guidance from FHWA/AASHTO Identify and/or update mission, goals, and objectives, and relate to easily identifiable needs and deficiencies (also see Culture dimension). Assess potential need for a more policy driven/institutional approaches to support operations and include performance measures that "make the business case" and are externally understood/meaningful. Update statewide and regional architectures by building on current state of practice (as defined in step #1) reflecting ongoing/planned activities in existing architectures/concepts of operations/systems Identify improvement actions (systems, strategies, and procedures), timeframes and participants including those focused on process and procedure improvements with very modest costs Review long and short-term investment options (capital, maintenance and staffing) in context of alternative levels of expenditure and resource availability and develop program(s) and schedules (s) for improvement actions, linking them to updated architectures Document revised ITS Strategic Plan 	
D	Implementation Task Details etails below apply to all tasks above or can be duplicated and specified for single tasks or subset of tasks.	
Lead	Mark Demidovich	
Support Staff	Chad Hendon, with Atkins task order utilizing non-Operations staff (office staff)	
Staff Level of Effort (person-days)	45 for GDOT staff, 60 for consulting staff	
Senior Leadership Support Actions	Approve task order for Atkins	
Collaboration Actions and Requirements	Need to meet with active District staff to gain input	
Technical Issues	None anticipated	
Key Risks	Should locals be involved? Would scope get too big? Maybe just RTOP-active locals?	
Resource Requirements	Atkins staff via engineering task, GDOT staff to oversee	
FHWA Support Resources and Contact	Provide samples of TSM&O plans from other similar regions	
Start Date	7/1/2014	
End Date	6/30/2015	
Success / Completion Indicator	Issuance of ITS Strategic Plan	

Details for Action 2 of 2 Host State may wish to use the reformulated/consolidated Workshop actions, modify them, or select other actions from the Workshop that relate to the lowest level dimension. This table should be reproduced for each action associated with this dimension.	
Action Description	Develop a process to integrate signal maintenance and upgrades into asset management.
Products and Desired Outcomes	Integrated signal asset management activities using ITS assets.
Task(s) / Subtask(s)	 Document current planning process for signal maintenance and upgrades. Determine if any updates are needed for this process Convene meeting(s) of RTOP stakeholders and District stakeholders to discuss avenues for integrating existing GDOT-owned signals into an asset management system. Develop and document a process to integrate signal maintenance and upgrades into an asset management system.
De	Implementation Task Details etails below apply to all tasks above or can be duplicated and specified for single tasks or subset of tasks.
Lead	Alan Davis
Support Staff	Traffic Signal section, RTOP staff
Staff Level of Effort (person-days)	180
Senior Leadership Support Actions	Determine currently available asset management tools at Enterprise level. Decide if they can be used in this effort or are different systems needed.
Collaboration Actions and Requirements	Meet with stakeholders and gain input, proof of concept testing on RTOP.
Technical Issues	Need to fully understand capabilities of Department's Enterprise asset management solution
Key Risks	Department's current tool is not the right tool and we will need our own independent tool
Resource Requirements	I.T. assistance, District assistance for signal inventory
FHWA Support Resources and Contact	Recruit visitor from another state to visit GA and show examples of what they've done similarly for traffic signal asset management. Greg Morris to facilitate.
Start Date	7/1/2014
End Date	12/31/2015
Success / Completion Indicator	Deployment of a signal inventory/asset management tool

Systems and Technology Implementation Plan Template

	Details for Action 0 of 0 wish to use the reformulated/consolidated Workshop actions, modify them, or select other actions from the Workshop te to the lowest level dimension. This table should be reproduced for each action associated with this dimension.
Action Description	None identified. Already an integrated level of capability in this dimension
Products and Desired Outcomes	
Task(s) / Subtask(s)	Tasks and subtasks can draw on the Suggested Steps as appropriate – including combining, eliminating, and modifying – as suitable to the local context.
	Implementation Task Details etails below apply to all tasks above or can be duplicated and specified for single tasks or subset of tasks.
Lead	
Support Staff	
Staff Level of Effort (person-days)	
Senior Leadership Support Actions	
Collaboration Actions and Requirements	
Technical Issues	
Key Risks	
Resource Requirements	
FHWA Support Resources and Contact	
Start Date	
End Date	
Success / Completion Indicator	

Performance Measurement Implementation Plan Template

	Details for Action 1 of 1 wish to use the reformulated/consolidated Workshop actions, modify them, or select other actions from the Workshop te to the lowest level dimension. This table should be reproduced for each action associated with this dimension.
Action Description	Identify and develop the most important performance measures (for freeway AND arterial roadwaysn) for Phase II of the internal dashboard rollout
Products and Desired Outcomes	Integrated outcome and output measures
Task(s) / Subtask(s)	 For annual reporting, tie outcome measures to the output measures used in the monthly NaviGAtor reports For internal dashboard, ensure that "drill-down can be performed for output measures at the corridor level Coordinate outcome measures (e.g., congestion level, reliability) with other units and agencies (e.g., emergency responders work zones, winter maintenance, CMP for major MPOs) – make sure they understand their contribution to overall mobility levels Use signal performance metrics from RTOP to prioritize corridor optimization efforts
D	Implementation Task Details etails below apply to all tasks above or can be duplicated and specified for single tasks or subset of tasks.
Lead	Mark Demidovich
Support Staff	Chad Hendon, with Angshuman Guin of GA Tech performing work under Atkins contract, Grant Waldrop
Staff Level of Effort (person-days)	45 days
Senior Leadership Support Actions	Approval of task order on Atkins contract to perform work
Collaboration Actions and Requirements	Need to collaborate with IT during project development to get buy in.
Technical Issues	How will data be given to Guin? Will processes that run be hosted on DOT servers or externally?
Key Risks	Guin is single point of failure. If for some reason he leaves or quits task early, no one is easily available to take over
Resource Requirements	Atkins contract task order for Angshuman Guin to develop performance measures. Mark Demidovich and Chad Hendon to oversee project.
FHWA Support Resources and Contact	Get sample layouts of best examples of performance measures charts and graphs from around the country. Greg Morris or Grant Zammit
Start Date	7/1/2014
End Date	6/30/2015
Success / Completion Indicator	Actively running "dashboards" with a variety of performance measures shown.

Culture Implementation Plan Template

	Details for Action 1 of 3	
	wish to use the reformulated/consolidated Workshop actions, modify them, or select other actions from the Workshop te to the lowest level dimension. This table should be reproduced for each action associated with this dimension.	
Action Description		
Products and Desired Outcomes	Outreach materials specific to public service providers	
Task(s) / Subtask(s)	 Using materials developed for the Business Case (under the Business Process Actions) reach out to public service providers and determine what types of targeted communications this audience would need to better understand collaborative resources. Convene a forum** and provide for opportunities for open two-sided dialog between TSM&O stakeholders and public service stakeholders. Document next steps to define positive steps to make progress for increased coordination and workings between these two stakeholder groups. ** may be addressed with restart of NaviGAtor User Group. 	
De	Implementation Task Details etails below apply to all tasks above or can be duplicated and specified for single tasks or subset of tasks.	
Lead	Chad Hendon or TMC Manager (when vacancy filled)	
Support Staff	Atkins staff, media liaison	
Staff Level of Effort (person-days)	45 days	
Senior Leadership Support Actions	None anticipated	
Collaboration Actions and Requirements	Bring together counties, cities public service providers	
Technical Issues	None anticipated	
Key Risks	Pushback from 911 centers not wanting to cooperate. Territorialism	
Resource Requirements	911 center contact database from GEMA, TIME and TIM team meetings	
FHWA Support Resources and Contact	Potentially a facilitator of a workshop or panel discussion	
Start Date	9/1/2014	
End Date	9/30/2015	
Success / Completion Indicator	Production of outreach materials. Successful completion of several working groups or discussion groups.	

Culture Implementation Plan Template

	Details for Action 2 of 3 wish to use the reformulated/consolidated Workshop actions, modify them, or select other actions from the Workshop te to the lowest level dimension. This table should be reproduced for each action associated with this dimension.
Action Description	Develop outreach and communications materials to promote TSM&O. Document lessons learned and success stories to broadcast success of TSM&O program
Products and Desired Outcomes	Business case document and related communications material designed to justify and promote TSM&O capability and strategy improvements as a basis for resource allocation. Outreach materials on success stories to feed the Business Case
Task(s) / Subtask(s)	 Establish cross-discipline interagency working group** to develop consensus business case based on performance data – and define purpose, scope, and audience (internal and external) for business case. Identify key audiences and "hot button" issues – and promising media formats and communication strategies. Review peer experience with business case development and FHWA/AASHTO/SHRP2 materials regarding approach to identification and presentation of costs, benefits, payoffs, and expected outcomes. Assess relative B/C compared to non-TSM&O alternatives. Identify and select case study opportunities to document and support outreach materials being developed as part of action items under Business Processes dimension ("develop Business Case"): a. Using the MTOP and PTOP models generate targeted outreach materials that showcase various success stories and benefits of the RTOP program b. Provide for varied RTOP case studies to exhibit corridor, statewide and other specific successes. c. Look for opportunities to present materials at special events that attract TSM&O stakeholders Coordinate with and provide input to the Business Case documentation. Identify and select data and analytics, identify project-type targets, and identify full range of cost and benefit categories of interest (including monetary and non-monetary) for TSM&O alternatives.
D	Implementation Task Details etails below apply to all tasks above or can be duplicated and specified for single tasks or subset of tasks.
Lead	Chad Hendon, or TMC Manager (when filled)
Support Staff	Atkins Median Liaison, GDOT Communications staff
Staff Level of Effort (person-days)	45 days
Senior Leadership Support Actions	Approval of communications materials for dissemination
Collaboration Actions and Requirements	Working with Communications office on best approach. Assistance with development of outreach materials
Technical Issues	Getting the correct data put together to "sell" the story
Key Risks	Not finding enough compelling material to promote
Resource Requirements	Need Atkins contract staff assistance. Media Liaison most likely.
FHWA Support Resources and Contact	Provide good examples of outreach material from other states/regions. Potentially bring in experts to Georgia. Greg Morris
Start Date	8/1/2014
End Date	3/31/2015
Success / Completion Indicator	Successful production of outreach materials. Distribution of such materials to sizeable numbers of persons.

Culture Implementation Plan Template

	Details for Action 3 of 3 wish to use the reformulated/consolidated Workshop actions, modify them, or select other actions from the Workshop te to the lowest level dimension. This table should be reproduced for each action associated with this dimension.
Action Description	Develop LTAP GDOT Course on ITS and signals. Investigate ITS training, standards, and certification opportunities for GDOT forces and local agencies.
Products and Desired Outcomes	Training resources for TSM&O
Task(s) / Subtask(s)	 Convene a working group to assess current training resources specific to ITS and operations Engage local university staff to support this working group Define training needs specific to TSM&O within GDOT Work with FHWA, NHI, and AASHTO to determine federal training resources Develop a library of training resources for TSM&O staff Develop LTAP GDOT course on ITS and signals Establish ITS training standards/certification for both GDOT and local jurisdictions, as well as their contractors; develop a plan for tying certification to training courses and attaching outcome to higher level title Identify opportunities to expose agency interns to operations activities/careers
D	Implementation Task Details etails below apply to all tasks above or can be duplicated and specified for single tasks or subset of tasks.
Lead	Alan Davis
Support Staff	Grant Waldrop, RTOP staff, Paul DeNard
Staff Level of Effort (person-days)	100 days
Senior Leadership Support Actions	None anticipated
Collaboration Actions and Requirements	Work with FHWA NHI and AASHTO to schedule courses/classes. Include locals/contractors. Convene working group
Technical Issues	Development of course material
Key Risks	
Resource Requirements	GDOT traffic signal staff, RTOP staff to participate in course development and establishment of standards for training.
FHWA Support Resources and Contact	Scheduling training classes, coordinating instructors/travel, etc. Greg Morris
Start Date	8/1/2014
End Date	6/30/2015
Success / Completion Indicator	Successful completion of coursework by wide variety of state and local staff. Development of training standards. Establishment of working group.

Organization and Staffing Implementation Plan Template

Details for Action 0 of 0 Host State may wish to use the reformulated/consolidated Workshop actions, modify them, or select other actions from the Workshop that relate to the lowest level dimension. This table should be reproduced for each action associated with this dimension.	
Action Description	See Culture dimension
Products and Desired Outcomes	
Task(s) / Subtask(s)	Tasks and subtasks can draw on the Suggested Steps as appropriate – including combining, eliminating, and modifying – as suitable to the local context.
D	Implementation Task Details etails below apply to all tasks above or can be duplicated and specified for single tasks or subset of tasks.
Lead	
Support Staff	
Staff Level of Effort (person-days)	
Senior Leadership Support Actions	
Collaboration Actions and Requirements	
Technical Issues	
Key Risks	
Resource Requirements	
FHWA Support Resources and Contact	
Start Date	
End Date	
Success / Completion Indicator	

Collaboration Implementation Plan Template

	Details for Action 1 of X wish to use the reformulated/consolidated Workshop actions, modify them, or select other actions from the Workshop te to the lowest level dimension. This table should be reproduced for each action associated with this dimension.
Action Description	Perform an overall assessment of stakeholder groups and interest areas that will advance statewide operations and TSM&O efforts. Reconstitute NaviGAtor Users Group, blend with RTOP participants
Products and Desired Outcomes	Re-invigorated Users Group
Task(s) / Subtask(s)	 Dust off historical NaviGAtor user group participants listing, assess and update to present day stakeholders. Broaden as necessary. Document the management of and an updated mission and purpose of this Users Group Determine schedule for engaging this Users Group (monthly, quarterly, etc.) Convene updated User Group with appropriate fanfare to re-engage participants. Prioritize the following as near-term agenda items: Define data stakeholder group for data sharing / sharing resources on performance data (Atlanta Metro or statewide) Define issues of integration and coordination; consider distinction between historical performance measure data vs. real time data (incident, dispatch data, etc.) Formulate plan for local jurisdiction signal maintenance responsibility (consider involvement of districts and level of formalization) Formulate strategy for bringing partners on board to Open Roads policy Coordinate GDOT operations deployment planning with major MPOs
	Implementation Task Details
De	etails below apply to all tasks above or can be duplicated and specified for single tasks or subset of tasks.
Lead	Mark Demidovich
Support Staff	Chad Hendon, RTOP staff
Staff Level of Effort (person-days)	30 days
Senior Leadership Support Actions	Nudge locals to participate in Users Group if there is any hesitation
Collaboration Actions and Requirements	Convening of working group, made up of as many current Navigator users as possible. Include districts.
Technical Issues	None anticipated
Key Risks	Users Group doesn't stay focused and lapses again.
Resource Requirements	Staff time to hold User Group meetings and prepare follow-up documentation
FHWA Support Resources and Contact	Potentially someone to act as meeting facilitator, especially in early stages
Start Date	9/1/2014
End Date	Non-ending, should convene on a regular basis for the foreseeable future.
Success / Completion Indicator	Regularly held meetings of Users Group. Successful formulation of plans for signal maintenance.