July 29, 2014

TO: Members of the MAG Intelligent Transportation Systems Committee

FROM: Catherine Hollow, City of Tempe, Chair

SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Wednesday, August 6, 2014- **10:00 a.m.**
MAG Office Building, 2nd Floor, Ironwood Room
302 North First Avenue, Phoenix

The ITS Committee has been scheduled at the time and place noted above. Committee members or their proxies may attend **in person or by video conference or by telephone conference call**. Those attending by telephone conference call please contact MAG offices for conference call instructions.

Please park in the garage under the MAG building, bring your ticket, parking will be validated. For those using transit, Valley Metro/RPTA will provide transit tickets for your trip. For those using bicycles, please lock your bicycle in the bike rack in the garage.

In 1996, the Regional Council approved a simple majority quorum for all MAG advisory committees. If the ITS Committee does not meet the quorum requirement, members who have arrived at the meeting will be instructed a legal meeting cannot occur and subsequently be dismissed. Your attendance at the meeting is strongly encouraged.

Pursuant to Title II of the Americans with Disabilities Act (ADA), MAG does not discriminate on the basis of disability in admissions to or participation in its public meetings. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting Jason Stephens at the MAG office. Requests should be made as early as possible to allow time to arrange the accommodation.

If you have any questions regarding the meeting, please contact Sarath Joshua at (602) 254-6300.

TENTATIVE AGENDA

	COMMITTEE ACTION REQUESTED
1. Call to Order For the August 6, 2014 meeting, the quorum requirement is 10 committee members.	
2. Approval of the May 7, 2014 Meeting Minutes	2. Review and approve minutes of the meeting held on May 7, 2014.
3. Call to Audience An opportunity will be provided to members of the public to address the ITS Committee on items not scheduled on the agenda that fall under the jurisdiction of MAG, or on items on the agenda for discussion but not for action. Members of the public will be requested not to exceed a three minute time period for their comments. A total of 15 minutes will be provided for the Call to the Audience agenda item, unless the ITS Committee requests an exception to this limit. Please note that those wishing to comment on action agenda items will be given an opportunity when the item is heard.	3. For information and discussion.
4. Program Managers Report The following items will be discussed: • Status of TSOP Projects • Status of recommendation for co-locating DPS officers at the ADOT Traffic Operations Center • Programming arterial ITS projects in FY 2018 and beyond	4. For information and discussion.
5. Workshop on Integrating Planning for Operations A two-day workshop on Integrating Planning for Operations will be held on August 25th and 26th at MAG. The workshop is sponsored by the Federal Highway Administration. The goal of this workshop is to equip both planners and operators to	5. For information and discussion.

integrate transportation system operations into the metropolitan transportation planning process using an objectives-driven, performance-based approach, consistent with MAP-21. The approach focuses on reaching desired system performance outcomes rather than just responding to problems. A brief overview of the workshop will be provided.

6. US Domestic Scan to Identify Advances in Strategies for Implementing Integrated Corridor Management (ICM) Systems

The project panel for NCHRP Project 20-68A, the US Domestic Scan Program, recently visited the Phoenix metropolitan region to review ICM practices in the region. Their visit was coordinated and hosted by Maricopa County, with a number of local stakeholder agencies participating in the event. The Scan Team toured a number of facilities in the region. They were also briefed on the various on-going ICM related activities in the region. The Scan Team will be developing a draft report with their Findings, Conclusions and Recommended Next Steps that will be distributed to all ICM stakeholders for their concurrence. A brief overview of the Scan Team's visit will be provided.

6. For information and discussion.

7. Reports by Committee Members

Members will be provided an opportunity to share information related to ongoing ITS activities in their jurisdictions.

7. For information and discussion.

8. Request for Future Agenda Items

Topics or issues of interest that members of the committee would like to have considered for discussion at a future meeting will be requested.

8. For information and discussion.

9.	Next Meeting Date and Place The next meeting is scheduled to be held at 10:00 a.m. on Wednesday, September 3, 2014. It will be held in the Ironwood Room on the 2nd Floor of the MAG office building. Adjournment	9. For information.

DRAFT MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
INTELLIGENT TRANSPORTATION SYSTEMS COMMITTEE
May 7, 2014
MAG Ironwood Room, 2nd Floor
302 North First Avenue
Phoenix, Arizona

MEMBERS ATTENDING

Farzana Yasmin for Reza Karimvand, ADOT
Chris Hamilton, City of Avondale
Thomas Chlebanowski, Town of Buckeye
Mike Mah, City of Chandler
Jeff Evanson for Captain Burley Copeland, DPS
Bryce Christo, City of El Mirage
Toni Whitfield, FHWA
Kristin Myers for Leslie Bubke, Town of Gilbert
Allan Galicia for Debbie Albert, City of Glendale
Luke Albert, City of Goodyear
Faisal Saleem for Nicolaas Swart, Maricopa County
Avery Rhodes, City of Mesa
Ron Amaya, City of Peoria
Marshall Riegel, City of Phoenix
Steve Ramsey, City of Scottsdale
Albert Garcia for Jason Mahkovtz, City of Surprise
Catherine Hollow, City of Tempe
Ratna Korepella, Valley Metro

OTHERS PRESENT

Lisa Burgess, KHA
Jeff Jenq, OZ Engineering
Dan Hartig, Ayres Associates
Jothan Samuelson, Wilson
Doug McCants, Atkins
Tim Wolfe, Dibble
Arnab Gupta, PB
Ryan Gish, MAG
Micah Henry, MAG
Sarath Joshua, MAG

* Not present or represented by proxy
# Participated by teleconference
+ Participated by videoconference

1. Call to Order
Chair Catherine Hollow called the meeting to order at 10:00 a.m.

2. Approval of the April 2, 2014 Meeting Minutes
The minutes were corrected to identify Bryce Christo as representing the City of El Mirage. **Albert Garcia from Surprise moved, Allan Galicia from Glendale seconded and it was unanimously carried to approve the minutes of the meeting held on April 2, 2014.**

3. Call to Audience
Chair Hollow made a call to the audience providing an opportunity for any members of the public to address the ITS Committee. No comments were received.

4. Program Manager's Report

Mr. Sarath Joshua from MAG addressed the following items in his report:

- Current Status of TSOP Projects:
  - The SYNCRHO Training Workshop was completed.
  - City of Mesa Turning Movement Counts Project has been deferred until fall 2014.
  - All other projects are underway.
  - The planned completion date of all TSOP projects is June 30, 2014.
- MAG Approval of FMS Budget & Schedule Recommendation:

  Sarath Joshua followed up on the action taken up by ITS Committee during the March 2014 meeting. Mr. Joshua identified that the Transportation Review Committee (TRC) recommended approval of the FMS budget and schedule for FY2015 through FY2019. The TRC requested that the FMS study scope and cost be presented to the TRC at a future meeting. TRC only recommended the first five years of the ADOT requested budget. This will require future MAG approval for any FMS funds beyond FY2019. The TRC recommendation will go to the Management Committee (meeting on May 14, 2014) and then to the Regional Council (meeting on May 28, 2014). The funds recommended for the FMS through FY2019 will be sufficient to implement all planned FMS segments except for one segment on Loop 303 and one segment on US-60. These two segments will be addressed in the FY2020 through FY2024 time frame.
- Emergency Vehicle Preemption (EVP) Study

  Sarath Joshua invited Micah Henry from MAG to given an update for the EVP Study. Mr. Henry identified the progress made for advancing the study. MAG received and accepted the fee proposal submitted by OZ Engineering. The project kick-off meeting is scheduled to be held in early June 2014. A Technical Advisory Group (TAG) has been identified for this study.
- RCN Working Group Meeting Update:

  Sarath Joshua invited Ryan Gish from MAG to give an update on the RCN Working Group and latest RCN developments. Mr. Gish detailed the working group's discussion regarding firmware updates for key routers and switches. Mr. Gish will be coordinating with agencies for the updates. The working group also discussed the Video Management Software Pilot, exploring the video sharing options. Tempe and Chandler, and possibly Mesa, will be assisting with this effort. The working group discussed the Fiber Mapping Update. The Regional Fiber Mapping Project Terms of Use and Account Request Form was distributed to the ITS Committee for review. The memo details the project and summarizes the planned effort for the project, identifying data to be collected and providing information regarding the secure website. Both conduit and fiber will be identified for the project. MAG has identified a Technical Working Group for the outreach effort to coordinate with member agencies. Regarding the planned IT training, Mr. Gish stated that the sessions will be scheduled within the next few months. The training will consist of network theory for the morning session and hands-on training for the afternoon session.

5. Comprehensive FMS Study

Chair Hollow asked Sarath Joshua to speak on the upcoming Comprehensive FMS Study. Mr. Joshua stated that the ITS Committee recommended this study along with the

recommendation for the requested budget for FMS expansion. The goal of the study is a comprehensive re-evaluation of the life-cycle of the current FMS technology infrastructure. Study recommendations will serve as the basis for planning ahead for future traffic management infrastructure on freeways and adjacent arterial corridors where Integrated Corridor Management (ICM) is planned. Funding for the study will come from the MAG Work Program and will be included in the FY2016 budget. The current FY2015 Work Program is too far along in the approval process to include this project for next year, so it is being planned for FY2016.

Mr. Joshua identified the need to form a working group consisting of MAG ITS Committee members to help develop the study scope and a cost estimate. Once the scope and budget have been identified the study can be inserted into the next MAG Work Program. Potential study topics include state of the practice review of urban FMS, Active Traffic Management Phase 1, new data sources (detection technology and private sector), refinements required for ICM, staffing needs and tools for complex traffic operations, safety features (such as addressing wrong-way entry), and the role of FMS in future V2V and V2I communications.

Mr. Joshua explained that the investment of regional funds to implement the FMS as a significant component of the RTP. The RTP also includes other projects as regional strategies. The Comprehensive FMS Study would assist inform future RTP updates through study recommendations. Both Maricopa County and the City of Chandler requested this study at the April committee meeting and supported it through committee action. The outline of the scope was drafted using input from those agencies. The recommendations from this study will guide future RTP investments. The TRC recognized this as a worthy study and has recommended approval. The focus of the study is likely to include both freeways and parallel arterials, producing an approach that is regional in nature. The committee suggested that the Working Group for the study retitle the project to reflect the regional nature of the planned study by incorporating Integrated Corridor Management strategies.

Mr. Joshua indicated that following the meeting an email will be sent to the committee with a request for volunteers to serve in the working group. Following the scoping and budget recommendations of the working group, the study information will be presented to TRC.

6. Priorities for Next Cycle of Traffic Signal Optimization Program

Chair Hollow requested Sarath Joshua to report on the next cycle of TSOP projects. Mr. Joshua identified the program goal to provide technical assistance to MAG member agencies for improving traffic signal coordination, optimization and review of operations. Since the inception of the program, over 100 projects have been completed. The FY2015 Work Plan includes $300,000 for new TSOP projects. This funding will become available on July 1st. There is a need to identify project priorities for the next call for TSOP projects.

Mr. Joshua initiated discussion on the priorities for TSOP projects for the upcoming FY2015. The existing application criteria for TSOP projects is that each MAG member agency may submit one or more projects of a regional scale (involving two or more agencies) at a max estimated cost of $60k each, and one single-agency project at a max estimated cost of $30k. Mr. Joshua reiterated that agencies are encouraged to apply for

ICM projects based on regional priorities identified in the 2012 ITS Strategic Plan. The three types of TSOP projects to be considered include regional ICM projects that involve signal optimization, single or multi-jurisdictional TSOP projects (non-ICM), or SYNCHRO network development.

Chair Hollow requested a general figure for the number of intersections that can be included in a single jurisdiction TSOP project. Mr. Joshua indicated that information will be derived from past MAG TSOP projects. In response to a question regarding the deadline for submittal of TSOP project requests, he stated that a deadline will be announced along with the planned MAG call for new TSOP projects in July or August 2014. No changes to the current TSOP project evaluation criteria were recommended by the ITS Committee. Mr. Joshua requested that committee members contact him if anyone felt a need to modify current project evaluation criteria.

6a. FY 2016 East Valley Congestion Map Project – Redefining Coverage Area

Chair Hollow asked Sarath Joshua to report on the East Valley Congestion Map Project. Mr. Joshua summarized the discussion from the previous month's committee meeting and identified the ITS project programmed in FY2016 in the TIP for City of Mesa. The project entails installing 91 vehicle sensors across the arterial network in the east valley. The project is being led by the City of Mesa with partnering agencies including City of Tempe, City of Chandler, and the Town of Gilbert. City of Chandler has requested to be removed from the project.

At the last meeting, action was taken to remove the work in Chandler from the project scope, followed by a discussion on reallocation of monies released from the project to other projects. Mr. Joshua reported that he had consulted with the MAG TIP programming manager and was informed that the funds could remain in the project if the project scope includes the same number of sensor locations to be redistributed among the remaining three agencies participating in the project. Mr. Joshua had consulted with Mesa, Tempe, and Gilbert to discuss scoping options and each agency indicated willingness to continue the project with the same number of sensor locations. This requires action from the MAG ITS Committee to redefine the scope to include the three agencies and the original number of detection device locations.

Marshall Riegel inquired on the limitations of the project in mandating the specific type of communication used for the detection device. Mr. Joshua indicated that his recollection was that Bluetooth technology was mentioned in the TIP project listing. Avery Rhodes indicated that this projects in connected to another TIP project being implemented by the City of Mesa, where the specifications identify the technology as Bluetooth or Wi-Fi. Mr. Joshua stated that he will review the exact wording used in the TIP to refer to the technology.

Mr. Avery Rhodes from Mesa moved to approve redefining the project scope to include the three agencies, City of Mesa, City of Tempe and Town of Gilbert and maintain the original number of 91 locations for detection devices. Ms. Kristin Myers from the Town of Gilbert seconded. It was unanimously carried to approve the motion.

7. Reports by Committee Members

Chair Hollow called on members to report items of interest to the committee. Faisal

Saleem reported that the MCDOT West Valley DMS project is under construction. He also reported that the AZTech Regional Information System (ARIS) application was launched at a recent AZTech Executive Committee meeting. This internet browser based application includes the integration of information from numerous field devices for use by staff at interested agencies. Ron Amaya of Peoria stated that the city received environmental clearance for an upcoming fiber project on 83rd Avenue from Lake Pleasant Parkway to Jomax Road. Marshall Riegel of Phoenix stated that a pre-construction meeting was held for I-10 Branch Fiber project with CS Construction as the contractor. Farzana Yasmin of ADOT stated that the agency has advertised the I-17 FMS project and conducted a kick-off meeting for the Loop 202 Santan Fwy FMS project. Steve Ramsey with Scottsdale stated that Bruce Dressel will be retiring on May 23rd. Kristin Myers with Gilbert reported on progress on two fiber backbone projects, one on Baseline Road and on Pecos Road. Allan Galicia with Glendale identified a current ITS project that would provide travel times on Dynamic Message Signs on Glendale arterial roads.

8. Request for Future Agenda Items

Chair Hollow identified a need to discuss availability of RTP funds for the Arterial ITS program. Sarath Joshua briefly described the status regarding the Arterial ITS program and how it was funded with RTP funds through FY2017. He explained that all CMAQ funds allocated in the RTP for arterial ITS applications were accelerated to the first 10 years of the program, and all those funds have now been programmed for ITS projects in the TIP through FY2017. Although no additional funds are identified in the RTP, there is an on-going effort at MAG to identify a funding plan for arterial ITS projects beyond FY2017. Mr. Joshua stated that an update will be provided at a future ITS Committee meeting.

9. Next Meeting Date and Place

Next meeting date was announced at 10:00 a.m. on Tuesday, June 3, 2014, in the Ironwood Room (2nd floor) at MAG.

10. Adjournment

Chair Catherine Hollow adjourned the meeting at 11:00 a.m.