

January 25, 2012

TO: Members of the MAG Intelligent Transportation Systems Committee

FROM: Debbie Albert, City of Glendale, Chair

SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Wednesday, February 1, 2012- **10:00 a.m.**
MAG Office Building, 2nd Floor, Ironwood Room
302 North First Avenue, Phoenix

A meeting of 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

	<u>COMMITTEE ACTION REQUESTED</u>
1. <u>Call to Order</u>	
2. <u>Approval of the December 7, 2011 Meeting Minutes</u>	2. Review and approve minutes of the meeting held on December 7, 2011.

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.

4. Program Managers Report

The following items will be discussed:

- FY2011 TSOP Project Update
- Status of Regional Transportation Systems Management and Operations
- Updates on Tatum Boulevard and Rural Road Corridor Studies

5. Traffic Signal Optimization Program (TSOP)

The list of seven TSOP projects plus the regional SYNCHRO training workshop, recommended by the committee is expected to be approved by Regional Council on January 25, 2012. The projects are planned to be launched and completed during the next few months. Before-and-after comparison studies will be performed at each of these signal timing improvement locations. The planned approach for conducting before-and-after evaluations will be presented to the committee.

6. ITS Strategic Plan Update

The current ITS Strategic Plan for the region was developed in 2001. It has served as the basis for programming a significant amount of regional funds for local ITS

3. For information and discussion.

4. For information and discussion.

5. For information and discussion.

6. For information and discussion.

projects. This Plan has resulted in the expansion of ITS infrastructure coverage in the region. The updated Plan will guide the direction of ITS expansion into closer alignment with regional priorities as identified in the Regional Transportation Plan and help promote regional solutions. Some anticipated focus areas of the new Plan will be the integration of arterial and freeway operations, and performance measurement. A draft outline of the Strategic Plan will be presented for discussion.

7. Adaptive Traffic Control System Study

In comparison to traditional traffic signal control systems, Adaptive Traffic Control Systems (ATCS) are designed to respond better to traffic fluctuations by adjusting signal timing parameters, in real-time or near real-time, based on data received from detectors. The continuous optimization of traffic signal timing by ATCS, within constraints established by traffic management staff, helps improve traffic efficiency and reduces delay and vehicular emissions. Nearly all larger jurisdictions in the region have well established centralized traffic signal systems. The City of Mesa is in the process of implementing an ATCS in a limited area. The next frontier in regional traffic management and operations is the implementation of ATCS across the arterial network in the region. However, that step requires a better understanding of the currently available ATCS, their strengths, weaknesses and limitations and compatibility with the range of existing traffic signal systems. The goal of this study is to evaluate available ATCS with respect to their effectiveness, reliability, compatibility with existing centralized systems.

8. Reports by Committee Members

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

7. For information and discussion.

8. For information and discussion.

9. Request for Future Agenda Items

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

10. Next Meeting Date and Place

The next committee meeting is scheduled to be held at 10:00 a.m. on Wednesday, March 7, 2012. It will be held in the Ironwood Room on the 2nd Floor of the MAG office building.

Adjournment

9. For information and discussion.

10. For information and discussion.

**DRAFT MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
INTELLIGENT TRANSPORTATION SYSTEMS COMMITTEE**

December 7, 2011
MAG Ironwood Room, 2nd Floor
302 North First Avenue
Phoenix, Arizona

MEMBERS ATTENDING

Darrell Bingham for Reza Karimvand, ADOT	Luke Albert, City of Goodyear
*Soyoung Ahn, ASU	**Faisal Saleem for Nicolaas Swart, Maricopa County
**Margaret Boone-Pixley for Bennie Robinson, City of Avondale	Suresh Shrimavle, METRO
*Thomas Chlebanowski, Town of Buckeye	Avery Rhodes, City of Mesa
Mike Mah, City of Chandler	**Ron Amaya, City of Peoria
*Captain R. Brant Benham, DPS	Marshall Riegel, City of Phoenix
Jorge Gastelum, City of El Mirage	Bob Ciotti, Phoenix Public Transit
**Jennifer Brown, FHWA	**Bill Birdwell, Town of Queen Creek
Kurt Sharp, Town of Gilbert	**Bruce Dressel, City of Scottsdale
Debbie Albert, City of Glendale	**Nicholas Mascia City of Surprise
	Catherine Hollow, City of Tempe
	Ratna Korepella, RPTA

OTHERS PRESENT

Lydia Warnick, ADOT	Joe Spadafino, YSMA
Joey Markuson, Atkins	Jay Yenerich, PB
Steve Blair, ITS Engineers	Dan Hartig, Ayres
Jeff Jenq, OZ Engineering	Dana Owsiany, Michael Baker
Deanna Haase, KHA	David Riley, UCG
Lisa Burgess, KHA	Allen Barakovic, Jacobs
Vinay Vanapalli, Stantec	Shanthi Krishnan, Jacobs
Micah Henry, MAG	Audrey Skidmore, MAG
Leo Luo, MAG	Kiran Guntupalli, MAG

- * Not present
- ** Via teleconference

1. Call to Order
Chair Debbie Albert called the meeting to order at 10:02 AM.

2. Approval of the November 2, 2011 and November 28, 2011 Meeting Minutes
Mike Mah moved, Catherine Hollow seconded and it was unanimously carried to approve the minutes of the meeting held on November 2, 2011 and November 28, 2011.

3. Call to Audience

Chair Debbie Albert 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

Sarath Joshua addressed the following items in his report:

- FY2011 TSOP project update: Twelve (12) projects have been completed. Four (4) projects are still underway. The total cost for all the projects is \$434,000. An estimated of \$30,000 will be forwarded to the next year.
- FY2012 TSOP Recommendation. Seven (7) projects are recommended for the next round of TSOP. Before and after studies will be conducted for all projects. A second round of call for projects is expected. SYNCHRO training will be held at Maricopa County Training Facility from February 29 to March 2. Plan to program \$300,000 for FY2013.
- 2012 ITS Committee Meeting Schedule: the planned 2012 ITS Committee meeting schedule was provided to committee members in Attachment One (1).

5. Status of Regional Arterial Transportation Systems Management and Operations

A brief overview of the project was provided by Sarath Joshua. Lisa Burgess from KHA demonstrated the website created from the survey data. Both the design of the web pages and the summary information are shown to the committee members. She also asked the committee members to provide comments of the website by December 21, 2011. Lisa confirmed with Faisal that some of the regional operations efforts have been captured. Sarath added that additional/modified survey questions can be incorporated into future updates. Suggested photo radar enforcement is being removed from the website since they are usually controlled by law enforcement. The committee agreed to remove the item from the website.

6. ITS Planning for Smaller Jurisdictions

In introducing this MAG study, Sarath mentioned that the purpose of the study is to assist small jurisdictions in planning for their ITS infrastructure when facing various challenges including rapid growth, limited resources, etc. Shanthi Krishnan from Jacobs presented the draft technical memorandum three (3) to document the process of conduct an inventory of smaller jurisdiction's assets including the ITS equipments. She also asked for inputs from the committee. Chair Debbie Albert emphasized the importance of the inventory for communications and the plan and requirements for conduit with other construction projects. Mike Mah from Chandler suggested helping the smaller jurisdictions to produce standards and details document. Smaller Jurisdictions could borrow the standards from bigger jurisdictions and modify them to meet their needs. Nicholas Mascia shared his experience in producing the standards in Surprise. He also suggested reviewing the existing ITS standards and possibly recommending the standards that are common in the region to be included in the MAG standards. Cathy Hollow from Tempe mentioned that although member agencies are not required to adopt the MAG specifications and details, it would be helpful for the smaller agencies if some ITS standards are included in the MAG standards. Chair Debbie Albert explained to Shanthi the process for agencies to be connected to the RCN. Jorge Gastelum from El Mirage mentioned that smaller jurisdictions may also get help from adjacent jurisdictions if both

are aware each other's activities. Faisal Saleem mentioned that Maricopa County conducts coordination meetings with many jurisdictions. Additional agenda item related to transportation could be included in these meetings. Sarath suggested that Maricopa County could invite smaller jurisdictions when relevant meetings take place.

7. Status Reports by Committee Members

Sarath mentioned that a webinar using active traffic management and dynamic speed limit to improve air quality was presented last week. Since PM 10 pollution is a challenge facing the region, MAG is interested in seeking solutions to the issue. An agent-based simulation modeling research project led by Dr. Yi-chang Chiu of University of Arizona may try to analyze the problem. A project meeting will be held at MAG on December 15. Any committee member who is interested in the topic is welcome to attend the meeting. Sarath will send out the agenda of the meeting when it is finalized. Cathy Hollow mentioned that Tempe will soon start their first wireless communications project to connect some of the CCTV cameras and traffic signals. Jorge Gastelum mentioned El Mirage is negotiating with the consultant of the Maricopa County construction project to upgrade their traffic signals. El mirage will also add additional signals at the end of the project. Darrell Bingham from ADOT mentioned that the FMS data will be made available through ADOT FTP site again. The hourly data of 2011 will be available on December 11. All the 2011 data will be available the following week. All the data dated back to 2007 will be available by year end. TOC Video wall project is pending on funding resolution in January 2012. Lydia Warnick mentioned that the State DMS plan is completed and available on ADOT website. The ramp meter study project is underway. The I-17 FMS project is advertised and statement of qualification is due on December 21. Marshall Riegel mentioned that the CCTV camera project is 50% completed. By the end of December City of Phoenix will have about 100 CCTV cameras. Faisal Saleem mentioned that the Bell road DMS project is advertised. The contracts for both TMC upgrade and signal system are finalized. A test bed for connected vehicle research project is developed. Bruce Dressel mentioned that a private fiber firm provided 52-miles of fiber to City of Scottsdale at no cost. Nicholas Mascia mentioned that Surprise finalize the design of the phase III ITS project. A project to connect fibers along loop 303 will be advertised soon. Chair Debbie Albert mentioned that Fiesta Bowl is helping City of Glendale in developing accurate directions to special event attendants following the example of Atlanta Falcons. Right now it is a web-based tool, not a smart phone application yet.

8. Request for Future Agenda Items

No future agenda item was received.

9. Next Meeting Date and Place

Next meeting will be held on Wednesday, January 4, 2012, in the Ironwood Room (2nd floor) at MAG at 10:00 a.m.

Adjournment

Chair Debbie Albert adjourned the meeting at 11:16 a.m.