

September 27, 2011

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, October 5, 2011- **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

COMMITTEE ACTION REQUESTED

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| <ol style="list-style-type: none">1. <u>Call to Order</u>2. <u>Approval of the September 7, 2011 Meeting Minutes</u> | <ol style="list-style-type: none">2. Review and approve minutes of the meeting held on September 7, 2011. |
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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:

- TSOP Project Status
- Non-Recurring Congestion Study
- ITS Planning in Smaller Jurisdictions
- New Project - DynusT Regional Model

5. Potential Special Event Directions Application

Special event traffic management differs from daily operations in that traffic control plans are created specifically to regulate ingress and egress of event traffic in an efficient manner. However, giving helpful and timely directions to drivers for effective and consistent implementation of traffic control plans is a challenge. Event attendees confused by the directions they receive can cause unnecessary congestion. Chair Debbie Albert will present a project idea for developing a location specific smart phone application that would provide ingress and egress guidance to special event attendees. The guidance information will be generated and broadcast from the local Traffic Management Center.

3. For information and discussion.

4. For information and discussion.

5. For information, discussion and possible action to recommend a new MAG project to develop a smartphone application for event traffic management to be included in the FY 2013 work program.

Committee members will discuss and possibly recommend a new project for developing such as application.

6. Status of Regional Transportation System Management and Operations

Most agencies have responded to a survey that was conducted, as part of this study, to gather information from all MAG member agencies. The summary results of the survey will be presented for committee review. A final deliverable of this project is to publish appropriate summary results at the MAG website with the capability to be updated annually. The committee will review all summary results and identify a suitable subset of results for publishing at the website.

7. FY 2012 Traffic Signal Optimization Program (TSOP)

The TSOP working group met on September 15, 2011, to discuss the issues, focus areas, and the requirement of before-and-after studies related to FY 2012 TSOP project selection. The working group has been recommended for four types of projects to be considered in the next cycle. They are: (1) regional projects; (2) multi-jurisdictional OR single agency projects; (3) before-and-after studies; (4) regional SYNCHRO training. These four types of projects are further described in Attachment One. The committee will review, discuss and recommend a process that will be used for generating TSOP projects for FY 2012.

8. Reports by Committee Members

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

6. For information, discussion and possible recommendation of useful summary results for display at the MAG website.

7. For information, discussion and recommendation of a process for TSOP project selection.

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, November 2, 2011. 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**

September 7, 2011
MAG Cholla Room, 2nd Floor
302 North First Avenue
Phoenix, Arizona

MEMBERS ATTENDING

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 Shrivavle, METRO
**Thomas Chlebanowski, Town of Buckeye	*Derrick Bailey, 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

Avery Rhodes, Glendale	Michael Reese, Avondale
Darrell Bingham, ADOT	Allen Barakovic, Jacobs
Doug McCants, Atkins	Jason Watson, Horrocks
Faisal Chowdhury, HDR	Joe Spadafino, YSMA
Jim Lee, Lee Engineering	Jay Yenerich, PB
Bo Gao, TransCore	Dan Hartig, Ayres
Jeff Jenq, OZ Engineering	Marta Gerber, Michael Baker
Tricia Boyer, KHA	David Riley, UCG
Lisa Burgess, KHA	Shelly Sovensen, Stanley
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 August 3, 2011 Meeting Minutes
Mike Mah moved, Kurt Sharp seconded and it was unanimously carried to approve the minutes of the meeting held on August 3, 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: Seven (7) projects have been completed. Seven (7) projects are still underway. Two (2) projects are about to start. The total cost for all the projects is \$434,000.
- RCN Workshop: A RCN Informational Workshop was held at ADOT HRDC on August 11, 2011. Chair Debbie Albert provided a brief summary of the workshop.
- Conclusion of the Non-Recurring Congestion Study and Next Step: Jim Lee presented the executive summary of the study. Committee members are requested to provide comments of the study by Friday. Faisal Saleem suggested adding Traffic Incident Management as one of the potential counter measures.
- MAG Request for Information on FY2011 & FY2012 TIP Projects: An email from MAG was sent to remind member agencies to provide information of federal funded FY2011 and FY2012 TIP projects. For projects that will not be authorized by September 30, 2011, Request to Defer form needs to be submitted to MAG by September 14, 2011.

5. Private Probe Vehicle Study, Arterial Data Availability and Data Quality

Shawn Turner from TTI made a brief presentation to introduce the state of practice of traveler information in utilizing Private Probe Vehicle (PPV) data. Many DOTs are expanding the use of the data. Key issues including technical, procurement, data assurance, etc. in integrating the PPV data for traveler information were also identified. Comparison between PPV data and fixed-point sensors data were also discussed. Another option to be considered is the Bluetooth reidentification, although operations and maintenance will incur. Chair Debbie Albert asked the probe vehicle data quality on arterials. Shawn mentioned that this is still an on-going progress. Sarath asked how much of the data from the private firms are coming directly from DOTs and what share of the business the public agencies are accounted for their business. Shawn mentioned that the main revenue sources of the private data firms are other private entities such as ISPs, auto manufacturers, etc. Mike Mah asked how the private firms produce the link speeds. Shawn mentioned that it varies significantly among different vendors. What they are providing is a best estimate of the link speed based on the data they have. It is more important to specify the accuracy requirement for the estimation than finding out exactly how each firm comes up with the estimation. Mike also asked the major data providers to day. Shawn mentioned INRIX, NAVTEQ, TrafficCast and several other providers. Faisal Saleem asked what kind of contract mechanism is utilized. Shawn mentioned that it varies. Many of the states have annual contract or bi-annual contract with extension options. Mike Mah shared Chandler's experience with Bluetooth technology by providing travel time information on arterial DMSs. They also utilize the technology as a substitute for floating car travel time runs. Sarath mentioned that the data restriction the private firms apply is sometimes a challenge for public agencies. Shawn agreed and mentioned that the public agencies should consider different applications of the data and negotiate with the private firms before acquiring it. Shawn also shared the success case of Bluetooth deployment in TranStar, Houston, TX. Chair Debbie Albert asked the existing

Bluetooth data collection companies. Shawn mentioned that there are only 5 to 6 private firms to day, but the business models vary. Mike mentioned that Chandler acquired the hardware and software separately and has full control of the data. Mike Mah and Faisal Saleem also shared their cost estimates with Reza Karimvand. Mike Mah confirmed with Sarath that the spacing of Bluetooth devices in Chandler ranges from half of a mile to 6 miles. Chair Debbie Albert asked if federal funding can be utilized for purchasing private data or devices and the on-going operations and maintenance costs. Sarath mentioned that it is possible to use federal funding for the purpose. However, limitations still apply for on-going operations and maintenance.

6. Status of Regional Transportation System Management and Operations

Lisa Burgess from Kimley-Horn Associates made a brief presentation on the project. A preliminary summary of the response from the survey was also shown. She also requested that the agencies which have not responded, to fill out the survey form. The project is expected to be completed by December, 2011.

7. FY2012 Traffic Signal Optimization Program (TSOP)

Sarath mentioned that before-and-after study is required for the next round of TSOP. This means the TSOP projects must lead to implementation with measureable improvements. Data collection alone should not be an eligible TSOP project. He suggested establishing new project selection criteria and focus areas. Sarath also showed TSOP examples from other regions in the draft NCHRP report. He also recommended forming a TSOP Working Group. Mike Mah, Catherine Hollow, Ron Amaya, Debbie Albert, Margaret Boone-Pixley and Faisal Saleem volunteered to join the TSOP Working Group to help establish TSOP focus area and criteria. Mike suggested having the before-and-after studies for selected projects. Cathy Hollow asked if two projects should be proposed. One for the timing update, the other for the before-and-after study. Sarath suggested having only one project proposed. Then the committee could decide the appropriate projects to be evaluated through before-and-after study.

8. Status Reports by Committee Members

Ron Amaya mentioned that Peoria is deferring some ITS projects. He also mentioned that Peoria is testing Rhodes at 83rd avenue and Thunderbird intersection. Faisal Saleem mentioned that Maricopa County TMC project is completed. Margaret Boone-Pixley mentioned that the McDowell ITS project is launched. Sarath mentioned that the ITS Arizona will be held at Mesa convention center on September 29, 2011.

9. Request for Future Agenda Items

No future agenda item is received.

10. Next Meeting Date and Place

Next meeting will be held at the 2nd floor in the Ironwood Room at MAG at 10:00 a.m. on Wednesday October 5, 2011.

Adjournment

Chair Debbie Albert adjourned the meeting at 11:52 a.m.

2012 TSOP Project Priorities

The following recommendations were generated by the TSOP Working Group:

Regional TSOP Projects – The MAG ITS Committee will review potential arterial corridors or networks to be designated for regional TSOP projects. The committee may also recommend one or more projects that would involve 2 or more local agencies in each project. Some example corridors are: Bell Road; McDowell Road; Camelback Road; Indian School Road; Broadway Road; Hayden Road; etc.

Regional TSOP projects will receive the highest priority during project review. The scope for these projects must be developed collaboratively by 2 or more agencies and the application needs to be submitted by one of the agencies. A tentative budget for all regional TSOP projects in 2012 was set at \$120,000, with approximately \$60,000 per project. These projects would involve data collection, new signal timing and field implementation. One or more of these projects may be designated for a before-and-after evaluation by an independent consultant.

Single/Multi-Agency Projects: An agency could submit ONLY one single-agency TSOP project. However, an agency may submit any number of multi-agency or regional TSOP projects. Each single or multi-agency project must be less than \$25,000 in estimated cost. The tentative budget for this project category is \$300,000. This will allow approximately 12 projects to be funded.

Scope of Work for Different Types of Projects:

Single/Multi-Agency Signal Timing Projects: These projects would involve data collection, new signal timing and field implementation. Some of these projects may be designated (by the ITS Committee) for before-and-after evaluation by an independent consultant.

Single-Agency Traffic Data Collection Projects: An agency may request a project that is limited to the collection of traffic count data for the purpose generating new signal timing using agency staff. For such projects, the application must indicate within how many weeks of the end of data collection period, the agency intends to implement new signal timing in the field (maximum 12 weeks allowed). The scope of work for data collection projects must include a before-and-after evaluation as part of the project.

Single-Agency SYNCHRO Network Development Projects: An agency requesting a project to develop SYNCHRO network must also include in the scope: data collection, establishing optimized signal timing and field implementation on one or more corridors within the SYNCHRO network. One or more of these projects may be designated by the ITS Committee for a before-and-after evaluation by an independent consultant.

Before-and-After Evaluations: These projects, to be developed by MAG, will involve independent B/A evaluations of the Regional TSOP projects and any other TSOP project designated for evaluation by the ITS Committee during the TSOP project selection process.

SYNCHRO Training: Regional Level I/II SYNCHRO Training Workshop for agency staff directly involved in signal timing. Estimated cost is about \$10,000 with no cost to MAG member agencies.