

August 27, 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, September 3, 2014- **10:00 a.m.**  
MAG Office Building, 2<sup>nd</sup> 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 September 3, 2014 meeting, the quorum requirement is 10 committee members.

2. Approval of the August 6, 2014 Meeting Minutes

2. Review and approve minutes of the meeting held on August 6, 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
- Planning for Operations Workshop, August 24-25, 2014
- Pilot Project to Co-locate DPS Officers at the TOC
- Proposal to FHWA on SHRP2 L04 Pilot Project

4. For information and discussion.

5. Emergency Vehicle Pre-emption Study

The MAG Emergency Vehicle Preemption (EVP) Best Practices Study is conducting a comprehensive review of the EVP practices to identify best practices and develop recommended practices for the MAG region to follow. An overview of the study approach and accomplishments to date will be provided.

6. Identifying Needed Arterial ITS Improvements for FY2018 and Beyond

The 2003 MAG Regional Transportation Plan allocated \$50million for arterial ITS improvements to be programmed over 20 years. The availability of these funds were accelerated to the first ten years through FY2017, and these funds have now been programmed for projects through FY2017. Funding options to continue with the programming of arterial ITS improvements are being explored by MAG staff, with one option being to utilize any remaining RTP funds after full FMS has been completed.

An email request was sent to the committee seeking agency input on ITS project needs. A summary of this information together with information on projects already implemented or programmed in the TIP, will be made available to MAG committees during forthcoming discussions and decisions on funding options.

7. Traffic Operations & Technology Solutions for Improving Road Safety

The MAG Transportation Safety Committee is currently developing a Strategic Plan (STSP) for Transportation Safety. One of the STSP tasks will identify strategies for improving road safety through traffic

5. For information and discussion.

6. For information and discussion.

7. For information and discussion.

operations and technology-based solutions. Since this is also a regional goal already identified in the 2012 MAG ITS Strategic Plan, the Transportation Safety Committee seeks recommendations and review from this committee for the technical memorandum that will be produced on this task. A brief presentation on this task will be provided.

8. Reports by Committee Members

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

9. 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.

10. Next Meeting Date and Place

The next meeting is scheduled to be held at 10:00 a.m. on Wednesday, October 1, 2014. It will be held in the Ironwood Room on the 2<sup>nd</sup> Floor of the MAG office building.

Adjournment

8. For information and discussion.

9. For information and discussion.

10. For information.

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

August 6, 2014

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

**MEMBERS ATTENDING**

- |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Farzana Yasmin for Reza Karimvand,<br>ADOT                                                                                                                                                                                  | Nicolaas Swart, Maricopa County<br>Avery Rhodes, City of Mesa                                                                                                                                                                    |
| # Chris Hamilton, City of Avondale<br>Chris Lemka, City of Buckeye<br>Mike Mah, City of Chandler<br>Captain Burley Copeland, DPS<br>Bryce Christo, City of El Mirage<br>Toni Whitfield, FHWA<br>Leslie Bubke, Town of Gilbert | * Steve McKenzie for Ron Amaya, City<br>of Peoria<br>Marshall Riegel, City of Phoenix<br>Steve Ramsey, City of Scottsdale<br>Albert Garcia, City of Surprise<br>Catherine Hollow, City of Tempe<br>Ratna Korepella, Valley Metro |
| #* Hugh Bigalk for Luke Albert, City of<br>Goodyear                                                                                                                                                                           |                                                                                                                                                                                                                                  |

**OTHERS PRESENT**

- |                                                                                                                                                                                               |                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Lisa Burgess, KHA<br>Jeff Jenq, OZ Engineering<br>Dan Hartig, Ayres Associates<br>Jothan Samuelson, Wilson<br>Corey Steele, Strand<br>Anita S. Johari, ASJ Engineering<br>Yogesh Mantri, YSMA | Tim Wolfe, Dibble<br>Arnab Gupta, PB<br>Jack Fairfield, MAG<br>Ryan Gish, MAG<br>Micah Henry, MAG<br>Chaun Hill, MAG<br>Sarath Joshua, MAG |
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- \* 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 May 7, 2014 Meeting Minutes  
The minutes were corrected to identify Bryce Christo as representing the City of El Mirage. **Marshal Riegel from Phoenix moved, Albert Garcia from Surprise seconded and it was unanimously carried to approve the minutes of the meeting held on May 7, 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:**

A total of 11 TSOP projects, three have been completed, seven projects are underway, and one project is about to be kicked off. The TSOP projects are scheduled to be completed by the end of October, except for one which is scheduled to conclude in November.

➤ **Status of Recommendation to Fund the Co-location of DPS Officers at the TOC**

Sarath Joshua detailed the effort to fund the co-location of DPS officers at the ADOT TOC. This recommendation developed from the MAG I-10/I-17 Corridor Master Plan project as a component of the action plan to improve operations. The funding proposal was presented to the Management Committee on June 11<sup>th</sup> as a pilot project for three years. The Management Committee members requested additional information for the pilot project. MAG, ADOT, and DPS prepared responses for all of the questions and developed metrics for the project so that it can be evaluated. This information will be presented to the Management Committee on August 6, 2014. With approval the project will be considered at the Transportation Policy Committee on August 13<sup>th</sup>, and then at Regional Council on August 27<sup>th</sup>. Pending the MAG pilot project approval ADOT has funded temporary position and a DPS officer has been stationed at the TOC since July 26<sup>th</sup>. The evaluation of this pilot project will be based on data collected including the standard metrics used for incident management. Archived data will be used to provide a before and after comparison. MAG completed a simulation of a 2-hour freeway closure to demonstrate the benefits of reducing the incident duration. Utah DOT experience with co-location resulted in a 25 percent reduction of closure duration. The simulation results indicated a 33 percent reduction in total traffic delay. Converting the delay reduction to person-hours delay results in \$220,000 savings per incident. Applying this figure to the 30 freeway closure incidents in 2013 on I-10 between Loop 303 and Loop 202 showed an annual savings of \$6.6 million.

➤ **RTP Funds for Arterial ITS Projects in FY2018 and Beyond**

In 2003 a total of \$50 million was allocated in the RTP for Arterial ITS projects. These funds were advanced to the first ten years that ended with the programming of projects in FY2017. There are currently no funding identified in the RTP for Arterial ITS for FY2018 and beyond. MAG is currently exploring funding options to continue programming arterial ITS projects in FY2018 and beyond. Any plan would require an amendment to the RTP as well as MAG approval. The next TIP programming cycle starts in August 2015. There is potential funding through CMAQ as well as other funds.

#### 5. Workshop on Integrating Planning Operations

Chair Hollow asked Toni Whitfield to speak on the upcoming FHWA Planning for Operations Workshop scheduled for August 25<sup>th</sup> and 26<sup>th</sup>. MAG is hosting the workshop in the Ironwood conference room. The purpose of the workshop is to bring together planners and operators to integrate system operations and management strategies into the metropolitan planning process using an objectives-driving, performance-based approach consistent with MAP-21. The agenda includes performance measures, programming for operations, monitoring, evaluation, analysis tools, and benefit-cost analysis. The workshop includes a peer exchange; Alex Estrella of SANDAG will speak on the I-15

National ICM Pilot Project. The Capability Maturity Model (CMM) outcomes will be integrated into the workshop to be developed into an action plan.

6. U.S. Domestic Scan to Identify Advances in Strategies for Implementing ICM Systems

Chair Hollow requested Nicolaas Swart to review the Integrated Corridor Management (ICM) US Domestic Scan Program that occurred on July 22<sup>nd</sup> and 23<sup>rd</sup>. The program was requested by AASHTO and funded through NCHRP. The purpose of the Scan was to learn about Arizona's successes, challenges, and innovations; to facilitate information sharing and technology exchange among transportation agencies; and to identify actionable items of common interest. Specifically the Scan Team examined the best practices in staffing real-time corridor management (classifications, team assignments, inter-jurisdictional staff sharing, after-hours staffing or call-out processes), how ICM projects are funded, the role of contracted services, and identified needed system support staffing changes. The Scan Team also examined the importance of inter-jurisdictional coordination (emergency responders, maintenance and incident response, and construction), timely notification to the public, monitoring traffic operations in TMCs with reliable detection and surveillance, and strategies to deploy incident response to reduce recurring and non-recurring congestion.

The Scan Team documented information on understanding how to most efficiently implement ICM technologies, funding, staffing issues, and the outsourcing of specific functions. The agenda included the Anthem Connected Vehicle Ted Bed Tour and a visit to the Scottsdale TMC and Loop 101 ICM Corridor Tour. It also included an overview of ICM, AZTech, and TIM Coalition, ICM planning and modeling, inter-agency partnerships and agreements, and the Loop 101 ICM plan and operations.

Discussion included:

- ICM initiatives in the region including the I-10 corridor: MAG and the City of Phoenix provided an overview of the ICM deployment planning project along with the DynusT modeling efforts for the project.
- Partnerships and institutional agreements in place: The City of Phoenix provided a review of the master IGA that is currently being finalized between the city, ADOT, and MCDOT. MCDOT provided an overview of the completed IGA with the City of Scottsdale and the REACT support team.
- Implementation on the Loop 101: The City of Scottsdale identified ITS infrastructure build out, advanced agency operations, alternate route opportunities, strong inter-agency partnerships, and traffic management during major incidents. The Loop 101 ICM Program Incident Management Operations Plan was presented to the scan team, including the Communications Diagram.
- Overview of the AZTech Regional Archive Data System (RADS) & the AZTech Regional Information System (ARIS): MCDOT reviewed the system for personalized notification of incidents to participating agencies within a specified and defined area. The Decision Support System represents the initial effort to an automated system.

The Scan Team will develop a report documenting the findings and conclusions of the review. The report will include a Dissemination Plan and provide recommended next steps for the region. The participants will review and approve the report prior to finalizing and publishing the document. Participating agencies will also be able to review reports from the Scan Team for other parts of the country.

7. Reports by Committee Members

Chair Hollow called on members to report items of interest to the committee. Bryce Christo reported that the City of El Mirage, with the help of MCDOT and the City of Surprise, installed a new traffic signal with emergency pre-emption and vehicle detection at Dysart & Peoria. Marshall Riegel reported on the City of Phoenix construction effort for the branch fiber project in the West Valley to establish the fiber backbone. Leslie Bubke reported on RFQ for design services for the Town of Gilbert to complete the northwest fiber ring. The Town of Gilbert also expressed thanks for MAG hosting the IT in ITS Workshop and should the workshop be conducted again they would send additional staff. Chair Hollow recognized Ryan Gish with MAG for his effort in putting the workshop together. Steve Ramsey reported on new construction on Loop 101 through the City of Scottsdale, from Loop 202 to Shea Blvd. Mr. Ramsey identified planned ICM events in conjunction with the construction effort and identified the opportunity to measure volumes on arterials due to planned closures of the freeway. He recommended reviewing the schedule for anticipated closures to identify events where traffic data could be collected.

8. Request for Future Agenda Items

Sarath Joshua identified the upcoming activity for the Transportation Safety Committee to develop the Strategic Transportation Safety Plan (STSP). One of the tasks for the project includes identifying ITS solutions for improving road safety. The recommendations will be identified in a technical memorandum. This will be presented to the ITS Committee at the September meeting for review and comment. The collaboration between the two committees could identify potential solutions to include regional funding for improving safety through ITS.

Chair Hollow requested an update to the Emergency Vehicle Preemption (EVP) study. Sarath Joshua requested Micah Henry from MAG to provide a quick update on the EVP Study. The project team is collecting data and interviewing agencies and vendors. Following this initial effort the project team will be presenting information on the state of the practice to the committee. Mr. Henry stated that the progress update will be presented to the Committee at the next meeting by the consultant.

9. Next Meeting Date and Place

Next meeting date was announced at 10:00 a.m. on Wednesday, September 3, 2014, in the Ironwood Room (2<sup>nd</sup> floor) at MAG.

10. Adjournment

Chair Catherine Hollow adjourned the meeting at 10:45 a.m.