

December 28, 2015

TO: Members of the MAG Intelligent Transportation Systems Committee

FROM: Marshall Riegel, City of Phoenix, Chair

SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Wednesday, January 6, 2016- **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

	<u>COMMITTEE ACTION REQUESTED</u>
1. <u>Call to Order</u> For the January 6, 2016 meeting, the quorum requirement is 10 committee members.	
2. <u>Approval of the December 2, 2015 ITS and TAG Joint Meeting Minutes</u>	2. Review and approve minutes of the ITS and TAG joint meeting held on December 2, 2015.
3. <u>Approval of the December 2, 2015 Meeting Minutes</u>	3. Review and approve minutes of the meeting held on December 2, 2015.
4. <u>Call to Audience</u> 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. For information and discussion.
5. <u>Program Managers Report</u> The following items will be discussed: <ul style="list-style-type: none">• Traffic Signal Optimization Program• Traffic Incident Management Summit• MAG Project Initiation Pool• DPS Co-location at TOC• ITS & Safety On-Call RFQ	5. For information and discussion.
6. <u>Emergency Vehicle Pre-emption Study</u> The Emergency Vehicle Preemption (EVP) Best Practices Study conducted a comprehensive review of the EVP practices,	6. For information, discussion and possible action to recommend approval of the final report on the Emergency Vehicle Preemption Best Practices Study.

identified best practices and recommended potential practices for the MAG region to follow. The study also compiled an inventory of regional EVP installations and practices. The draft final report has been reviewed and all comments have been addressed in the final report. A brief presentation will be provided on the final report and the recommended next steps.

7. Developing Traffic Management Response Plans for Freeway Closures

Several past TSOP projects involved the development of corridor arterial traffic management plans that would be utilized whenever the arterial is impacted by a major diversion of traffic from a parallel freeway.

One of these projects addressed the I-10 West segment between I-17 and Loop 101 Agua Fria. The second project addressed the US 60 corridor between I-10 and Loop 101 Price. Another project will address US60 east of Loop 101. Each of these projects involve close coordination with the local agencies, ADOT and DPS. A process similar to that being followed in the national Integrated Corridor Management (ICM) demonstration projects is being followed, including Analysis and Simulation Modeling (AMS) using the MAG Dynus-T model.

A brief overview of the ICM planning process 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.

7. For information and discussion.

8. For information and discussion.

9. For information and discussion.

10. Next Meeting Date and Place

The next meeting is scheduled to be held at 10:00 a.m. on Wednesday, February 3, 2016. It will be held in the Ironwood Room on the 2nd Floor of the MAG office building.

Adjournment

10. For information.

MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
TECHNOLOGY ADVISORY GROUP AND
INTELLIGENT TRANSPORTATION SYSTEMS COMMITTEE
JOINT MEETING
December 2, 2015
MAG Ironwood Room, 2nd Floor
302 North First Avenue
Phoenix, Arizona

TECHNOLOGY ADVISORY GROUP MEMBERS ATTENDING

#David L. Stevens, Maricopa County, Chair	*Pat O'Keefe, Mesa
#Rob Lloyd, Avondale, Vice Chair	#Joseph Curtis, Paradise Valley
*Greg Platacz, Buckeye	#Tim Smothers for John Imig, Peoria
#Jim Keen, Carefree	#Debbie Cotton, Phoenix
#Brian Poore, Cave Creek	*Kim Clark, Queen Creek
#Patrick Hait, Chandler	#Brad Hartig, Scottsdale
#Pat Timlin, El Mirage	#Tracy Mills, Surprise
#Mike Ciccarone, Fountain Hills	#Dave Heck, Tempe
*Mark Kramer, Gilbert	#William Tsuei, Valley Metro
#David Atchison, Glendale	
#Dan Cotterman, Goodyear	

* Those members neither present nor represented by proxy.
Attended by telephone conference call.

INTELLIGENT TRANSPORTATION SYSTEMS COMMITTEE MEMBERS ATTENDING

Marshall Riegel, Phoenix, Chair	Allan Galicia for Debbie Albert, Glendale
Chris Hamilton, Avondale, Vice Chair	#Hugh Bigalk for Luke Albert, Goodyear
Farzana Yasmin for Reza Karimvand, ADOT	Barbara Houser for Nicolaas Swart, Maricopa County
*Yingyan Lou, ASU	Avery Rhodes, Mesa
Mike Mah, Chandler	Steve McKenzie, Peoria
Captain Burley Copeland, DPS	*Steve Ramsey, Scottsdale
Bryce Christo, El Mirage	Albert Garcia, City of Surprise
*Toni Whitfield, FHWA	#David Lucas, City of Tempe
Leslie Bubke, Gilbert	*Abhishek Dayal, Valley Metro

* Those members neither present nor represented by proxy.
Attended by telephone conference call.

JOINT MEETING OF THE MAG INTELLIGENT TRANSPORTATION SYSTEMS AND
THE TECHNOLOGY ADVISORY GROUP

1. Call to Order

The Technology Advisory Group (TAG) meeting was called to order at 10:00 a.m. by Chair David L. Stevens of Maricopa County. The Intelligent Transportation Systems Committee (ITS) meeting was called to order at 10:02 a.m. by Chair Marshall Riegel of Phoenix. All members introduced themselves and Chair Stevens covered the procedures for teleconferencing and public comment.

2. Call to the Audience

No comments were made by the audience.

3. Request for Connection to the Regional Community Network

Chair Stevens asked Audrey Skidmore of MAG to give an overview of the item. Ms. Skidmore reminded the committees that previously discussed at TAG and ITS Committee meetings there was a request from ASU in conjunction with City of Tempe to obtain a connection to the RCN in order to allow the ASU Traffic Engineering Lab access to traffic data for testing purposes. She noted that a Working Group was formed from both committees to see what it would take to allow ASU access to the RCN. She identified that a change is required to the RCN Roles and Responsibilities and the recommended language was developed through the Working Group and MAG attorneys with a draft presented to RCN Working Group, TAG and ITS Committee. She noted that primary concerns of the connection are to limit the scope of the connections, maintain public use, protect the agencies by installing a firewall, and limiting the duration and scope of connection. A new class was created to the Roles and Responsibilities document allowing a Non-Governing Partner (NGP) to gain access to the RCN and a sub-class for educational institutions. Ms. Skidmore noted that the revised changes were previously provided to both committees and no comments were received. She added that any educational institution that wanted to connect would have to be public and sponsored by one of the agencies. In addition, both TAG and ITS committees would have to approve of the NGP connection.

Debbie Cotton from Phoenix asked if the firewall would be provided by the institution or agency. Ms. Skidmore clarified that normally a firewall is not provided, but in this case, MAG RCN would be providing the firewall to maintain control and ownership of the device and the connection to the NGP.

Chair Stevens asked for a corresponding motion from the TAG to recommend approval of the changes to the RCN Roles and Responsibilities document which could eventually allow ASU to obtain a connection to the RCN. Vice Chair Rob Lloyd of Avondale made the motion which was seconded by Debbie Cotton of Phoenix. There was no further discussion, so Chair Stevens called a vote. The TAG approved the changes unanimously.

Chair Riegal asked for a corresponding motion from the ITS Committee to recommend approval of the changes to the RCN Roles and Responsibilities document which could eventually allow ASU to obtain a connection to the RCN. Steve McKenzie of Peoria made the motion which was seconded by Vice Chair Chris Hamilton of Avondale. There was no further discussion, so Chair Riegal called a vote. The ITS Committee approved the changes unanimously.

4. Adjournment

Chair Stevens asked for a motion to adjourn the TAG. Tracy Mills of Surprise made the motion and Vice Chair Lloyd of Avondale seconded. The motion was approved unanimously at 10:08 AM. Chair Riegal indicated that the ITS Committee would reconvene at 10:30 AM.

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

December 2, 2015
MAG Ironwood Room, 2nd Floor
302 North First Avenue
Phoenix, Arizona

MEMBERS ATTENDING

Farzana Yasmin for Reza Karimvand, ADOT	# Hugh Bigalk for Luke Albert, City of Goodyear
* Yingyan Lou, ASU Chris Hamilton, City of Avondale	Barbara Hauser for Nicolaas Swart, Maricopa County
* Jason Mahkovtz, City of Buckeye Mike Mah, City of Chandler	Avery Rhodes, City of Mesa Steve McKenzie, City of Peoria
Captain Burley Copeland, DPS Bryce Christo, City of El Mirage	Marshall Riegel, City of Phoenix * Steve Ramsey, City of Scottsdale
* Toni Whitfield, FHWA Leslie Bubke, Town of Gilbert	Albert Garcia, City of Surprise # David Lucas, City of Tempe
Allan Galicia for Debbie Albert, City of Glendale	* Abhishek Dayal, Valley Metro

OTHERS PRESENT

BriAnne Turpin, Michael Baker	Bruce Dressel, Lee Engineering
Felipe Ladron, Kittelson	Scott Kelley, AMEC FW
Justin Watson, Stantec	Margaret Boone, MAG
Jeff Jenq, OZ Engineering	Ryan Gish, MAG
Srini Goundla, PB	Micah Henry, MAG
Krishna Anantuni, PB	Sarath Joshua, MAG
Don Tappendorf, TEC	Eric Nava, MAG
Arnab Gupta, AECOM	Christopher Olander, MAG
Don Wiltshire, YSMA	Audrey Skidmore, MAG

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

1. Call to Order
Chair Marshall Riegel called the meeting to order at 10:30 a.m.

2. Approval of the November 4, 2015 ITS Committee Meeting Minutes
Chair Riegel requested approval of the meeting minutes from the November 4th ITS Committee meeting. David Lucas with City of Tempe identified a correction in Item 5 for the Phoenix ARID project. **Leslie Bubke from Town of Gilbert moved, Mike Mah from City of Chandler seconded, and it was unanimously carried to approve the minutes, with the corrections noted, of the meeting held on November 4, 2015.**

3. Call to Audience
Chair Riegel 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
Chair Riegel invited Sarath Joshua from MAG to present the Program Manager's Report. Mr. Joshua addressed the following items in his report:

➤ Status of TSOP Projects:

For FY2015 TSOP projects nine out of the eleven projects have been completed. Project number ten, which will facilitate the Before and After Evaluation of three TSOP projects, is slated to be completed this week. This includes a Glendale project on 59th Avenue from Deer Valley Road to Union Hills Drive (underway), the City of Tempe project on Mill Avenue from Curry Road to University Drive, and the City of Surprise project on Bell Road from Grand Avenue to Loop 303. The fee proposal for Project number eleven, the ICM project for I-10 from 35th Avenue to 83rd Avenue, is expected this week and the task order will be initiated shortly.

MAG issued a call for applications on October 7, 2015, for FY2016 TSOP projects. The available budget is \$300,000. The deadline for submitting applications was Noon on Friday, November 13, 2015. Projects involving two or more agencies of a regional scale can receive up to \$60,000, while single-agency projects can receive up to \$30,000. The application form requires additional information including type of controllers maintained by the agency, the time source used for coordination, and the existence of interconnection. Applications were reviewed by the Committee and is an item on today's agenda for discussion and possible recommendation of approval of a list of 2016 TSOP projects. Task Orders will be issued in January 2016 and all work is anticipated to be completed by June 2016.

➤ ITS Committee 2016 Schedule of Meetings

The proposed schedule for meetings for the ITS Committee in 2016 includes the following dates:

- January 6, 2016
- February 3, 2016
- March 9, 2016
- April 6, 2016
- May 4, 2016
- June 1, 2016
- July 6, 2016
- August 3, 2016
- September 7, 2016
- October 5, 2016
- November 2, 2016
- December 7, 2016

Each meeting will begin at 10 AM in the MAG Ironwood conference room, preceded by the Regional Community Network Working Group starting at 9 AM.

5. Recommendation of FY2018-2019 ITS Projects

Chair Riegel invited Sarath Joshua to discuss the recommendation of TIP projects for CMAQ ITS projects. Two lists of ITS projects were recommended for FY2018 and FY2019 and were presented at the November ITS Committee meeting. In order to reduce ADOT administration costs during the project obligation process, MAG staff received request from agencies to combine projects of similar scope. This included moving some projects from one funding year to another. After consulting with the member agencies, ten ITS CMAQ projects recommended have been combined, to produce five projects. This includes the following projects:

- City of Mesa – Install cabinets & controllers at 50 locations and establish communications (FY2018),
- City of Goodyear – Install fiber along Elwood Street, CCTV, connect two signals to TMC (FY2018),
- City of Chandler – Install bicycle detection system for 40 signalized intersections along Chandler Boulevard & Ray Road (FY2019),
- City of Glendale – Install fiber, communication, and CCTV along Camelback Road from 51st Avenue to 91st Avenue (FY2019),
- City of Phoenix – Central Core ARID (FY2019).

Committee members took action needed to amend the prior recommendation of projects and to recommend the revised list of projects. **Albert Garcia from the City of Surprise moved, Avery Rhodes from City of Mesa seconded, and it was unanimously carried to amend the prior recommendation of projects. Albert Garcia from the City of Surprise moved, Avery Rhodes from City of Mesa seconded, and it was unanimously carried to approve the revised recommended list of projects for FY2018 and FY2019 for the MAG TIP.**

6. FY2016 TSOP Projects

Chair Riegel invited Sarath Joshua with MAG to discuss the Traffic Signal Optimization Program projects scheduled for FY2016. The FY2016 MAG Work Program includes \$300,000 for a new cycle of TSOP projects. To identify new projects, MAG issued a call for project applications on October 7, 2015, with a deadline of Noon, Friday, November 13th. A total of six project applications were received for a total estimated cost of \$304,000. There is a \$10,000 carry-over of funding from a previous cycle for a total of \$310,000 available for these projects. Applications were provided to Committee members for review prior to the meeting and the submitting agencies provided an overview of each application to facilitate the Committee discussion.

The project applications included:

- Gilbert/Mesa/ADOT – Develop ICM Plan for US-60 from Gilbert Road To SR-202L
- MCDOT – Signal Optimization on 99th Ave. from Olive Ave. to Union Hills Dr. and on Union Hills Dr. from Westbrook Parkway to 107th Avenue
- City of Phoenix – Signal Optimization on Glendale Ave. from 7th St. to 24th St. including SR-51, and Morten Ave. & 16th St., and Bethany Home Rd. & 16th St.
- City of Phoenix – I-10 ICM Concept of Operations
- City of Surprise – Signal Optimization on Greenway Rd. from Dysart Rd. to Cotton Ln.
- ADOT – Signal Optimization on Indian School Rd. From 19th Ave. to 23rd Ave. and on Camelback Rd. from 19th Ave. to 27th Ave.

Two additional TSOP projects include the 3-Day Synchro Training Workshop and the Before and After Evaluation of Selected Corridors. These were added to the original list for a combined eight TSOP projects.

During discussion of the project applications, Chair Marshall Riegel with City of Phoenix identified the need to continue the current effort to implement Integrated Corridor Management strategies on I-10. Chair Riegel requested the TSOP application for City of Phoenix for I-10 ICM Concept of Operations be replaced with the second phase for implementing ICM on I-10. Leslie Bubke with Town of Gilbert identified four potential staff members for the Synchro Training, for a total of nineteen participants. The project study area for the MCDOT TSOP was clarified. Avery Rhodes with City of Mesa identified the need for general cost estimates for future TSOP project consideration. This effort would be supported by MAG; MAG staff will review the different types of projects initiated through the program including standard TSOP projects, ICM-related projects, and system modeling projects. As future TSOP projects include ICM-related tasks, these estimates will further be developed.

Committee members took action needed to recommend the TSOP projects for funding. **Mike Mah from City of Chandler moved, Marshall Riegel from City of Phoenix seconded, and it was unanimously carried to approve the list of TSOP projects for FY2016 with the modifications noted.**

7. Reports by Committee Members

Chair Riegel called on members to report items of interest to the committee. Farzana Yasmin with ADOT updated the Committee on the Active Traffic Management project on I-17. She reported that the draft of the Concept of Operations has been completed and is under review. The Project Assessment is scheduled for completion by March 2016. Barbara Hauser with Maricopa County reported on the efforts related to Traffic Incident Management (TIM) being conducted by the County. A TIM Summit sponsored by FHWA is scheduled to be held next week. Chair Riegel briefed the committee on the Bell Road Adaptive Traffic Signal Control project. He stated that RFPs have been received and are currently under evaluation. Scoring will be conducted this month. Sarath Joshua reported on the pilot project to co-locate DPS at the ADOT TOC. One year of the pilot project has been completed and the data is being compiled. There will be a media event held at the TOC on the project's first anniversary in January 2016. Sarath Joshua announced that following the committee meeting, MAG will be hosting a national webinar related to ITS applications for bicycle and pedestrian facilities, and invited members to participate.

8. Request for Future Agenda Items

Chair Riegel called on members to request future agenda items. There were no requests.

9. Next Meeting Date and Place

Chair Riegel noted that the next meeting will be held at 10:00 a.m. on Wednesday, January 6, 2015, in the Ironwood Room (2nd floor) at MAG.

10. Adjournment

Chair Riegel adjourned the meeting at 11:14 a.m.