

October 28, 2013

TO: Members of the MAG Intelligent Transportation Systems Committee  
FROM: Catherine Hollow, City of Tempe, Chair  
SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Tuesday, November 5, 2013- **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 November 5, 2013 meeting, the quorum requirement is 10 committee members.

2. Approval of the September 4, 2013 Meeting Minutes

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:

- Status of On-Call Contracts
- Suggestions for the FY2015 MAG Work Program
- Meeting schedule for 2014

5. Project Review Process at ADOT Local Public Agency Section

An update will be provided on the current project review process at ADOT Local Public Agency Section. A few changes that have been made to the project review process could potentially affect the process of member agencies projects. Patrick Stone from ADOT will provide this update.

6. I-10 & I-17 Corridor Near-Term Improvements Strategy

A team from ADOT, FHWA and MAG have begun developing a near-term improvement strategy for the I-10 & I-17 freeway corridors

2. Review and approve minutes of the meeting held on September 4, 2013.

3. For information and discussion.

4. For information and discussion.

5. For information and discussion.

6. For information and discussion.

referred to as the “Spine”. In June the committee recommended an ICM Action Plan that was developed in response to a MAG request to the committee for identifying operational improvements on these corridors. The committee recommendation included strategies that addressed operations and management improvements on many freeway corridors and parallel arterials. Due to a recent clarification by the ADOT, FHWA and MAG team regarding the focus of this effort, the initial development of operational strategies will be for the I-17 and I-10 Spine corridor (excludes I-10 Papago Freeway). A Working Group made up of ADOT, DPS, City of Phoenix, City of Tempe, City of Chandler, Maricopa County and MAG has been assigned the task to identify a list of appropriate strategies.

7. FY2014 Traffic Signal Optimization Program Projects

A call for FY 2014 TSOP projects was issued on August 9, 2013, with project applications due by noon on August 28, 2013. A total of approximately \$339,000 is available to fund new TSOP projects that will be assigned to MAG on-call consultants. A total of 11 project applications were received. These 11 projects plus the before-and-after evaluations, and the SYNCHRO training are listed in Attachment One. Copies of all project applications received by MAG have been provided to committee members via email for review. The committee will discuss the merits of each project and recommend a list of projects to be funded.

8. Reports by Committee Members

Members will be provided an opportunity to share information related to ongoing ITS

7. For information, discussion and possible action to recommend a list of TSOP projects.

8. For information and discussion.

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 committee meeting is scheduled to be held at 10:00 a.m. on Wednesday, December 4, 2013. It will be held in the Ironwood Room on the 2<sup>nd</sup> Floor of the MAG office building.

Adjournment

9. For information and discussion.

10. For information.

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

September 4, 2013  
MAG Ironwood Room, 2nd Floor  
302 North First Avenue  
Phoenix, Arizona

MEMBERS ATTENDING

Reza Karimvand, ADOT	** Hugh Bigalk for Luke Albert, City of Goodyear
+ TBD, ASU	Faisal Saleem for Nicolaas Swart, Maricopa County
Chris Hamilton, City of Avondale	Avery Rhodes, City of Mesa
**Daymara Cesar for Thomas	Ron Amaya, City of Peoria
Chlebanowski, Town of Buckeye	Marshall Riegel, City of Phoenix
Mike Mah, City of Chandler	+ TBD, Town of Queen Creek
**Captain Burley Copeland, DPS	**Steve Ramsey, City of Scottsdale
Jorge Gastelum, City of El Mirage	Albert Garcia for Jason Mahkovtz, City of Surprise
**Jennifer Brown, FHWA	Catherine Hollow, City of Tempe
Erik Guderian, Town of Gilbert	Ratna Korepella, RPTA
Debbie Albert, City of Glendale	

OTHERS PRESENT

Douglas McCants, Atkins	Lisa Burgess, KHA
Adam Krupa, URS	Marc Porter, Arcadis
Vinay Vanapalli, Stantec	Arnab Gupta, PB Inc
Rick White, Schneider Electric	Sandy Thoms, Jacobs
David Riley, UCG	Sarah Simpson, UCG
Steve Blair, ITS Engineers	Dan Hartig, Ayres Inc
Sanjay Paul, ADOT	Cory Steele, Strand
Eldon Dehnert, Sierra Trans	Tom McGovern, Sierra Trans
Saroja Devarakonda, HDR	Jeff Jenq, OZ
Margaret Boone, MAG	Ryan Gish, MAG
Kiran Guntupalli, MAG	Sarath Joshua, MAG
Leo Luo, MAG	

+ Not present  
\*\* Teleconference

1. Call to Order

Chair Catherine Hollow called the meeting to order at 10:03 a.m.

2. Approval of the August 7, 2013 Meeting Minutes

**Reza Karimvand moved and Rom Amaya seconded and it was unanimously carried to approve the minutes of the meeting held on August 7, 2013.**

3. Call to Audience

Chair Catherine 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

Sarath Joshua addressed the following items in his report:

- RCN Update – A brief report from RCN Working Group meeting was provided by Ryan Gish. He reported that last month there was a RCN network outage in Surprise and it was repaired fast. He is continuing to provide technical support for Camera Cameleon users at MAG agencies. The regional fiber mapping project is underway and he expected that project to produce a fiber map in a few months.
- Status of MAG ITS & Safety On-call Contracts: The execution of new contracts have started. It is expected that all contracts will be executed by the end of September and project work will begin by January or February.
- FHWA Workshop on Planning for Operations was held at MAG on August 27, 2013. The workshop was conducted by FHWA and Cambridge Systematics staff. The workshop presented new models and planning tools. It was a success with nearly 35 attendees that included staff from local agencies, PAG, ASU, U of A and local consultants.
- Revised MAG quorum requirements for committee meetings was explained to the committee. If a member agency with a seat on the committee is absent from formal committee meetings on three consecutive meetings, and also does not attend the fourth meeting, then that member agency is not counted towards the committee quorum requirement. This status will remain until the member agency starts attending meetings again, at which point the agency will be counted towards the quorum.

5. FY2014 TSOP - Call for Projects

The recent MAG call for projects has resulted in a total of 12 projects that includes a regional Synchro workshop. The budget available is, \$300,000 from the FY2014 work program and \$39,000 from remaining funds from the previous cycle of TSOP projects. The total for all project requests added up to \$394,000. Sarath Joshua indicated that he could seek additional funds from the Work Program for the shortfall and ensure that all proposed project will be funded. In response to a question from Marshall Riegel, Sarath indicated that he could find out about additional funding availability in about a week. The complete project application package has not been distributed to the committee as yet. It will be sent out via email later today. Committee action regarding a recommendation of a project list to be funded would be scheduled for the October meeting. Agencies that have proposed projects were requested to provide brief descriptions. Marshall Riegel described the four TSOP projects that have been proposed by the City of Phoenix. Two of the projects address Integrated Corridor Management(ICM) along I-10. Chair Cathy Hollow, representing the City of Tempe, described the two ICM projects proposed by the city with partner agencies ADOT and DPS. Both projects address developing signal timing for ICM along US60. Albert Garcia described the project proposed by the City of Surprise. Avery Rhodes described the

project proposed by the City of Mesa. Faisal Saleem described the two projects proposed by Maricopa County, one of which is located in a county island in Mesa. A project proposed by Pinal County at Ironwood/Gantzel Road. The project applications have also identified the need for 11 seats at the SYNCHRO training workshop. Sarath Joshua asked Leo Luo to explain some new options for SYNCHRO training available from the vendor TrafficWare. He described two types of training: Classical training level 1 or level 2 as in the past OR Workbook-based training on specific subjects such as signal coordination or timing at interchanges etc. The workshop could also be a mix of the two types of training with Level 1 training for days 1 and 2 and workbook training for day 3. Two agencies have requested Level 1 training. MAG will seek input from member agencies in figuring out the best course content for the workshop. An email with the SYNCHRO course content will be sent to all agencies. Approximately 22 persons can be accommodated at the County training facility where this workshop is typically held. In response to a question from Debbie Albert, Sarath responded that other names can still be added to the list of persons wishing to attend the workshop. This item will be brought back for committee action at the next meeting.

6. ADOT Freeway Ramp Metering Study Recommendations

Reza Karimvand provided an overview of the Ramp Metering Study. He stated that ADOT is now moving from congestion monitoring to congestion management. He said that the ramp metering study was launched in response to request from local agencies desiring improved ramp meter operations. The project goals were to improve effectiveness of ramp meters and develop guidelines on when to install ramp meters. The underground infrastructure will be installed, in conjunction with FMS or other construction, even in locations where ramp meter warrants are not met. Objectives of the study were to help minimize travel times and fuel consumption. ADOT on-call consultant United Civil Group (UCG) was assigned to the project. Sarah Simpson explained how UCG went about gathering data for the study and how they also checked with 20 other state DOTs to review their ramp metering practices. She said that the freeway system was modeled with ramp meters turned off to determine which ramp meters were not effective. New ramp metering rates were tested at US60 and Val Vista Dr interchange. An interesting finding she noted was that for new ramp metering installation warrants – the total traffic volume on the rightmost lane and the on-ramp must exceed 2050 vehicles/hr. Mike Mah asked if all ramp meters can be turned on or off from the TOC. Reza indicated that ADOT could do that from the TOC. Mike Mah asked if on the FMS projects in design will ADOT use these warrants and if they are not met will the conduits be built. Sarath Joshua asked how frequently ADOT planned to check potential ramp meter locations to see if they meet these warrants. Reza indicated that ADOT is moving rapidly to smart ramp metering and that ADOT has an internal policy system to check ramp metering warrants. Sarath also asked if there were any ramp meter locations that are not tied to the FMS central control. Reza responded that only 2 or 3 ramp meters are not linked to the central FMS system. ADOT is working on adding them soon. Debbie Albert asked when time of day ramp metering will be implemented. Reza asked Sanjay Paul of ADOT to respond to the question and Sanjay said ADOT is exploring options and there is no specific timeline established as yet. Reza indicated that ADOT will move towards smart ramp metering. Faisal said that would be a huge leap forward from where we are.

7. Reports by Committee Members

Jorge Gastelum informed the committee that Bryce Christo will be replacing him as the representative from El Mirage on the committee. Reza Karimvand announced that ADOT is hiring a number of new staff for the TOC.

8. Request for Future Agenda Items

No comments were received.

9. Next Meeting Date and Place

Next meeting date was announced at 10:00 a.m. on Wednesday, October 2, 2013, in the Ironwood Room (2<sup>nd</sup> floor) at MAG.

Adjournment

Chair Catherine Hollow adjourned the meeting at 11:15 a.m.

**FY2014 Traffic Signal Optimization Program Projects**

	<b>Lead Agency</b>	<b>Other Agencies</b>	<b>Project Type</b>	<b>Description</b>	<b>Est. Cost</b>	<b>Training</b>
1	City of Phoenix	ADOT	Multi-agency	Cave Creek Road Signal Timing	\$45,000	
2	City of Phoenix	ADOT	Multi-agency	Tatum Boulevard Signal Timing	\$35,000	
3	City of Phoenix	ADOT, DPS, Maricopa County	ICM	Signal timing plan for ICM on I-10 between 35th Ave and 51st Ave	\$45,000	
4	City of Phoenix	ADOT, DPS, Maricopa County	ICM	Signal timing plan for ICM on I-10 between 67th Ave and 83rd Ave	\$45,000	
5	City of Tempe	ADOT, DPS	ICM	Signal timing plan for ICM on US60 & Baseline Road in Tempe	\$30,000	
6	City of Tempe	ADOT, DPS	ICM	Signal timing plan for ICM on US60 & Southern Ave in Tempe	\$45,000	
7	City of Surprise		Single-agency	Signal timing at 4 Loop303 interchanges	\$15,000	
8	City of Mesa		Single-agency	Turning movement counts & Before-After travel time runs	\$20,000	
9	Maricopa County		Single-agency	Signal timing along MC85	\$24,000	
10	Maricopa County	City of Mesa	Multi-agency	University Drive Signal timing	\$20,000	
11	Pinal County		Single-agency	Gantzel(Ironwood Dr) Signal Timing	\$30,000	
12	MAG		Evaluation	Before & After Evaluation of 3 projects TBD (possibly #2, #9, #10)	\$30,000	
13	MAG		Workshop	3-day SYNCHRO Training Workshop	\$10,000	11

**\$394,000**

Available in FY2014

**\$347,000**