

November 24, 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, December 2, 2015- **10:30 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 December 2, 2015 meeting, the quorum requirement is 10 committee members.	
2. <u>Approval of the November 4, 2015 ITS Committee Meeting Minutes</u>	2. Review and approve minutes of the meeting held on November 4, 2015.
3. <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.	3. For information and discussion.
4. <u>Program Managers Report</u> The following items will be discussed: <ul style="list-style-type: none">• Status of FY2015 TSOP Projects• Status Report on the RCN• 2016 Schedule of Meetings	4. For information and discussion.
5. <u>Recommendation of FY2018 & 2019 ITS Projects</u> At the committee meeting held on November 4, 2015, action was taken to recommend a list of ITS projects to be programmed in the TIP for FY2018 & 2019, based on the committee's project evaluation process. However, MAG has received requests from a few member agencies to allow combining a few projects and also switch projects between the two program years. This would	5. For information, discussion and possible action to: (a) Amend prior action; (b) Recommend approval of the revised list of ITS projects for FY2018 and FY2019.

enable agencies to combine projects, that were submitted to MAG as separate phases of a single project. Thus enabling the elimination of duplicate administrative costs that would otherwise be incurred during the federal funds obligation process at ADOT. An opportunity exists to modify the prior action to accommodate this change. A modified recommendation of FY2018 and 2019 ITS projects, based on the requests received, is shown in Attachment One. A motion and action to amend the prior committee recommendation is required before committee action can be taken to recommend the revised list of projects.

6. FY2016 TSOP Projects

The FY2016 MAG Work Program includes \$300,000 for a new cycle of TSOP projects. To identify new project, MAG issued a call for new project applications on October 7, 2015. A total of six (6) project applications were received. A brief description of the projects and their estimated costs are shown in Attachment Two. The complete project applications have also been provided to members for review.

7. Reports by Committee Members

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

8. 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.

9. Next Meeting Date and Place

The next meeting is scheduled to be held at 10:00 a.m. on Wednesday, January 6, 2016. It will be held in the Ironwood Room on the 2nd Floor of the MAG office building.

Adjournment

6. For information, discussion and possible action to recommend a list TSOP projects for FY2016.

7. For information and discussion.

8. For information and discussion.

9. For information.

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

November 4, 2015
MAG Ironwood Room, 2nd Floor
302 North First Avenue
Phoenix, Arizona

MEMBERS ATTENDING

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

OTHERS PRESENT

Raquel Schatz, City of Apache Junction	Dan Hartig, Ayres
Kiran Guntupalli, City of Glendale	Tim Wolfe, Dibble
Chris Lemka, City of Peoria	Doug McCants, Horrocks
Matthew Reeg, ADOT	Alyssa Mittelhauser, AMEC FW
Natalie Carrick, Michael Baker	Corey Steele, Strand
Tom McCullough, Kimley-Horn	Ryan Gish, MAG
Laura Sewell, Stantec	Micah Henry, MAG
Jeff Jenq, OZ Engineering	Sarath Joshua, MAG
Srini Goundla, PB	Teri Kennedy, 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
Vice Chair Chris Hamilton called the meeting to order at 10:05 a.m.
2. Approval of the October 7, 2015 ITS Committee Meeting Minutes
Vice Chair Hamilton requested approval of the meeting minutes from the October 7th ITS Committee meeting. **Reza Karimvand from ADOT moved, Bryce Christo from City of El Mirage seconded, and it was unanimously carried to approve the minutes of the meeting held on October 7, 2015.**

3. Call to Audience

Vice Chair Hamilton 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

Vice Chair Hamilton 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 #10, the Before and After Evaluation of three TSOP projects, is currently being completed. This includes Glendale 59th Ave. from Deer Valley Rd. to Union Hills Dr., Tempe Mill Ave. from Curry Rd. to University Dr., and Surprise Bell Rd. from Grand Ave. to Loop 303. For Project #11, the ICM project for I-10 from 35th Avenue to 83rd Avenue, the scope of work was finalized last week following a review by ADOT and the City of Phoenix. The task order will be initiated shortly.

MAG has issued a call for new TSOP projects on October 7, 2014 for FY2016. The available budget is \$300,000. The deadline for submitting applications is Noon on Friday, November 13, 2015. Projects involving 2 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 controllers, time source used for coordination, and interconnection. Application review by the Committee will follow the deadline and project recommendations will be conducted at the December 2nd ITS Committee meeting. Task Orders will be issued in January 2016 and all work planned to be completed by June 2016.

➤ Status Report on the Regional Community Network (RCN)

Ryan Gish provided an update on the latest RCN developments that were discussed at the RCN Working Group meeting earlier in the day. He reported that there was a review of the changes made to the RCN Roles and Responsibilities document. There was a network update with regards to the redundancy in Surprise due to an anticipated construction project in early 2016. MAG staff is coordinating with City of Peoria staff for viable alternatives. MAG staff is working with the Town of Queen Creek to establish a connection to the RCN via gigabit wireless radio communications. It is anticipated that the update to the Luxriot video management software will be in place by the end of the year for testing, with updates provided to users in the first part of 2016.

➤ SOLARIS University Transportation Center

SOLARIS is one of 35 University Transportation Centers (UTCs) funded by the USDOT. The lead university for the southwest region is the University of Nevada-Reno. Other participating universities include University of Nevada Las Vegas, Arizona State University, and University of New Mexico. The research theme is applied research in traffic operations and road safety. Supporting agencies include CALTRANS, Nevada DOT, NMDOT, RTC Reno, and RTC Las Vegas. SOLARIS is a potential resource for addressing applied

research problems. MAG potentially could be a sponsor. Yingyan Lou with ASU stated that project deadlines for requested new research are in September.

➤ **MAG ITS & Safety On-Call RFQ**

Currently there are 17 on-call consultants under contract for the MAG ITS & Safety On-Call Consulting Services contract. The current three-year contract expires in September 2016. The estimated time to execute new contracts is six to nine months. In anticipation for this effort, MAG will issue the Request for Qualifications for new on-call contracts in early 2016 with expected contracts issued in October 2016. MAG will request from the ITS Committee a panel of five to six volunteers to assist in evaluating proposals. There is an expected time commitment for two meetings. Members for the panel will be solicited via email.

5. **FY2018-2019 TIP Project Evaluation Process & Project Presentations**

Vice Chair Hamilton invited Sarath Joshua to discuss the evaluation of TIP project applications. Mr. Joshua provided a brief review of the ITS project application submissions. Thirty-one candidate ITS projects were presented on October 7th. The Phoenix ARIS project was split into two phases based on committee feedback. Project evaluation forms were provided on October 21st and Air Quality scores were provided on October 23rd. Fifteen evaluation forms were received that provided each evaluator's ranking for all 32 projects. All 15 project ranks from evaluators were combined to generate the composite ranking as depicted in the first attachment to the agenda packet.

Available CMAQ funding for each fiscal year is \$3.68M, for a total of \$7.36M. The funding levels are sufficient to only fund projects ranked 1 through 21 as depicted in the second attachment to the agenda packet. For FY2018 the requested amount was \$5.56M and for FY2019 the requested amount was \$1.75M. The ITS Committee composite ranking was used to assign project to the desired program year for FY2018 and FY2019 as depicted in the third attachment to the agenda packet. Eleven projects were assigned to FY2018 with remainder funds totaling +\$135,299. Ten projects were assigned to FY2019 with remainder funds totaling -\$88,120. Projects #17 through #21 requested funds in FY2018. It is recommended that these projects be moved to FY2019, resulting in a surplus of \$47,179 in either fiscal year.

The normal programming process to assign the surplus \$47,179 would have been to split the funding between the two projects tied at rank #22. However, the City of Surprise has declined the funds for SUR-19-ITS-1, opting to use local funds for the project. The City of Goodyear accepted the entirety of the surplus funding for GDY-18-ITS-1, where the total project cost is \$380,683. This project can be included in the committee recommendations to program in the MAG TIP for FY2018, requiring the agency to provide a commitment letter to MAG. This project will also be eligible for TIP close-out funds. The City of Goodyear must apply for close-out funds in January of 2018. Available close-out funds have approximated \$4M in previous years.

The recommended list of projects for each fiscal year was provided to the Committee. There will be opportunities to combine projects following approval of the recommended project list. The MAG ITS Committee recommendation of arterial ITS projects for FY2018 and FY2019 is as follows:

PROJECTS RECOMMENDED FOR FY 2018					
Lead Agency	Project Number	Preferred Program Year	Recommended CMAQ Funds	Committee Rank	
Tempe	TMP-18-ITS-1	FY2018	\$392,010	2	\$392,010
El Mirage	ELM-18-ITS-1	FY2018	\$305,721	4	\$697,730
Glendale	GLN-18-ITS-3	FY2018	\$399,832	5	\$1,097,562
Surprise	SUR-18-ITS-2	FY2018	\$141,450	6	\$1,239,012
Avondale	AVN-18-ITS-1	FY2018	\$278,279	7	\$1,517,292
Apache Junction	APJ-18-ITS-1	FY2018	\$267,340	8	\$1,784,632
Glendale	GLN-18-ITS-2	FY2018	\$400,000	9	\$2,184,632
Mesa	MES-18-ITS-1	FY2018	\$390,000	10	\$2,574,632
Maricopa County	MMA-18-ITS-1	FY2018	\$299,874	11	\$2,874,506
Scottsdale	SCT-18-ITS-1	FY2018	\$368,713	12	\$3,243,219
Goodyear	GDY-18-ITS-2	FY2018	\$301,482	15	\$3,544,701
Goodyear	GDY-18-ITS-1	FY2018	\$47,179	22	\$3,591,880
Total Requested			\$3,591,880		
Available Funds			\$3,680,000		
Balance			\$88,120		

PROJECTS RECOMMENDED FOR FY 2019					
Lead Agency	Project Number	Preferred Program Year	Recommended CMAQ Funds	Committee Rank	
Tempe	TMP-19-ITS-2	FY2019	\$392,010	1	\$392,010
Maricopa County	MMA-19-ITS-2	FY2019	\$122,590	3	\$514,600
Chandler	CHN-19-ITS-2	FY2019	\$396,060	13	\$910,660
Mesa	MES-19-ITS-1	FY2019	\$390,000	14	\$1,300,660
Phoenix	PHX-19-ITS-3	FY2019	\$454,526	16	\$1,755,186
Chandler	CHN-18-ITS-1	FY2018 2019	\$396,060	17	\$2,151,246
Glendale	GLN-18-ITS-1	FY2018 2019	\$400,000	18	\$2,551,246
Phoenix	PHX-18-ITS-1	FY2018 2019	\$458,534	18	\$3,009,780
Peoria	PEO-18-ITS-1	FY2018 2019	\$358,340	20	\$3,368,120
Maricopa City	MAR-18-ITS-1	FY2018 2019	\$400,000	21	\$3,768,120
Total Requested			\$3,768,120		
Available Funds			\$3,680,000		
Balance			-\$88,120		

Teri Kennedy with MAG stated that if projects are split into two separate phases but the scope of work is similar, then the two projects can be combined into a single project to reduce administration efforts. This would require agreement from selected agencies

should the projects shift from one fiscal year to the other. **Albert Garcia from the City of Surprise moved, Steve Ramsey from City of Surprise seconded, and it was unanimously carried to approve the recommended list of projects for FY2018 and FY2019 for the MAG TIP.**

6. Request for Connection to the Regional Community Network

Vice Chair Hamilton invited Audrey Skidmore with MAG to discuss the request from ASU for a connection to the RCN. This request was submitted with the City of Tempe as the sponsoring MAG agency. The request is for MAG to provide ASU access to the RCN and establish a connection to the ASU Traffic Engineering Lab. MAG staff worked with an informal working group of member agencies comprising of both the ITS Committee and the Technology Advisory Group (TAG) to discuss this request. A connection to ASU would require a change to the MAG RCN Roles and Responsibilities document adopted by the Regional Council in 2010. This document with the recommended changes was provided as the fourth attachment in the agenda packet. The typical approach to the ASU connection would be to use a firewall and limit accessibility. The TAG will be reviewing the changes at the next scheduled meeting. The possibility was discussed of holding a joint meeting between ITS and TAG on December 2nd to approve the changes. **Steve Ramsey from City of Scottsdale moved, Albert Garcia from City of Surprise seconded, and it was unanimously carried to defer the decision to be taken action for the ASU connection to the RCN at the next ITS Committee meeting.**

7. Reports by Committee Members

Vice Chair Hamilton called on members to report items of interest to the committee. Reza Karimvand with ADOT updated the Committee on the I-17 Near-Term Improvements. He reported that the TIGER grant application for the project was not successful. However, the project is moving forward with the Project Assessment and the development of the Concept of Operations. Sarath Joshua with MAG solicited member agencies to submit projects for the upcoming MAG work program. Agencies can submit projects and studies that have either regional or local impacts to MAG staff.

8. Request for Future Agenda Items

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

9. Next Meeting Date and Place

Next meeting date was announced at 10:00 a.m. on Wednesday, December 2, 2015, in the Ironwood Room (2nd floor) at MAG.

10. Adjournment

Vice Chair Hamilton adjourned the meeting at 10:47 a.m.

**2016 MAG Meeting Schedule
ITS Committee & RCN Working Group
MAG Ironwood Room**

January 6, 2016	9:00am	RCN WG
	10:00am	ITS Committee
February 3, 2016	9:00am	RCN WG
	10:00am	ITS Committee
March 9, 2016	9:00am	RCN WG
	10:00am	ITS Committee
April 6, 2016	9:00am	RCN WG
	10:00am	ITS Committee
May 4, 2016	9:00am	RCN WG
	10:00am	ITS Committee
June 1, 2016	9:00am	RCN WG
	10:00am	ITS Committee
July 6, 2016	9:00am	RCN WG
	10:00am	ITS Committee
August 3, 2016	9:00am	RCN WG
	10:00am	ITS Committee
September 7, 2016	9:00am	RCN WG
	10:00am	ITS Committee
October 5, 2016	9:00am	RCN WG
	10:00am	ITS Committee
November 2, 2016	9:00am	RCN WG
	10:00am	ITS Committee
December 7, 2016	9:00am	RCN WG
	10:00am	ITS Committee

MAG ITS Committee Recommendation
Arterial ITS Projects in FY2018 & FY2019
Project FY Changes and Consolidations Based on Agency Requests

PROJECTS RECOMMENDED FOR FY 2018					
	Lead Agency	Original Project Number	Description	Recommended CMAQ Funds	Committee Rank
1	Tempe	TMP-18-ITS-1	Install DMS, CCTV cameras, wireless link, bicycle detection, & EVP networking	\$392,010	2
2	El Mirage	ELM-18-ITS-1	Install fiber , install five CCTV cameras and interconnect six traffic signals	\$305,721	4
3	Glendale	GLN-18-ITS-3	Install EVP system citywide at 48 intersections	\$399,832	5
4	Surprise	SUR-18-ITS-2	Develop ITS strategic plan and implementation plan	\$141,450	6
5	Avondale	AVN-18-ITS-1	Install fiber backbone to connect two existing backbone runs on Dysart Rd fiber	\$278,279	7
6	Apache Junction	APJ-18-ITS-1	Install wireless communication to all Apache Junction traffic signals	\$267,340	8
7	Mesa	MES-18-ITS-1 & MES-19-ITS-1	Install cabinets & controllers at 50 locations and establish communications	\$780,000	10 & 14
8	Maricopa County	MMA-18-ITS-1	Upgrade TMC workstations, video wall display, network equipment, and system	\$299,874	11
9	Scottsdale	SCT-18-ITS-1	Install 17 video detection cameras and TMC software	\$368,713	12
10	Goodyear	GDY-18-ITS-1 & GDY-18-ITS-2	Install fiber along Elwood St, CCTV, connect two signals to TMC	\$348,661	12 & 15
Total Requested				\$3,581,880	
Available Funds				\$3,680,000	
Balance				\$98,120	

PROJECTS RECOMMENDED FOR FY 2019					
	Lead Agency	Original Project Number	Description	Recommended CMAQ Funds	Committee Rank
1	Tempe	TMP-19-ITS-2	Phase 2 - Install DMS, CCTV cameras, wireless link, bicycle detection, & EVP networking	\$392,010	1
2	Maricopa County	MMA-19-ITS-2	Upgrade RADS server and hardware and provide system integration	\$122,590	3
3	Chandler	CHN-19-ITS-2 & CHN-18-ITS-1	Install bicycle detection system for 40 signalized intersections along Chandler Blvd & Ray Rd	\$792,120	13 & 17
4	Glendale	GLN-18-ITS-2 & GLN-18-ITS-1	Install fiber, communication and CCTV along Camelback Rd from 51st Ave to 91st Ave	\$800,000	9 & 18
5	Phoenix	PHX-19-ITS-3 & PHX-18-ITS-1	Central Core ARID - Phases 1 & 2	\$913,060	16 & 18
6	Peoria	PEO-18-ITS-1	Install 72 flashing yellow arrow signal heads & cabinet and controllers at 12 locations	\$358,340	20
7	Maricopa City	MAR-18-ITS-1	Install conduit & fiber, CCTV cameras, & wireless comm. and interconnect 6 signals	\$400,000	21
Total Requested				\$3,778,120	
Available Funds				\$3,680,000	
Balance				-\$98,120	

ATTACHMENT TWO

FY2016 MAG Traffic Signal Optimization Program - Project Applications

Lead Agency	Other Agencies	Brief Description	Number of Intersections	Estimated Cost	Training Requests
Gilbert	Mesa, ADOT	Traffic Management Response Plans for US-60 Incidents & Closures	37	\$60,000.00	TBD
MCDOT		Signal Optimization at 99th Ave & Union Hills Dr	15	\$30,000.00	1
Phoenix	ADOT	Signal Optimization at SR-51 & Glendale *	7	\$30,000.00	6
Phoenix	ADOT, MCDOT, DPS	I-10 ICM Concept of Operations	118	\$55,000.00	-
Surprise		Signal Optimization on Greenway Rd - Dysart Rd to Cotton Ln	9	\$27,000.00	2
ADOT	Phoenix	Signal Optimization at: (a) I-17 & Indian School Rd*; (b) I-17 & Camelback Rd*	9	\$60,000.00	6
MAG		3-day SYNCHRO Training		\$12,000.00	15
MAG		Before/After Evaluation of Selected Locations*		\$30,000.00	
		Total Requests		\$304,000.00	
		TSOP Funds Available		\$310,000.00	

incl. \$10,000 carryover

NOTES:

Detailed descriptions of projects are included in the PDF project application binder that was sent via email to ITS Committee members.