

November 27, 2012

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, December 5, 2012- **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

<u>TENTATIVE AGENDA</u>		<u>COMMITTEE ACTION REQUESTED</u>
1.	<u>Call to Order</u>	
2.	<u>Approval of the November 7, 2012 and November 15, 2012 Meeting Minutes</u>	2. Review and approve minutes of the meetings held on November 7, 2012 and on November 15, 2012.

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:

- 2013 Regional ITS Architecture Update
- FY 2013 TSOP project recommendations (Attachment One)

5. FY 2015-FY 2017 ITS Project Ranking and Selection

A total of 15 committee members provided individual ranks for the 35 ITS projects proposed for fiscal years 2015, 2016 and 2017. These individual ranks were then combined to generate one ranked list of projects. The resulting ranked list of projects and an option for programming these projects in the three years, based on this ranking and goals stated in the ITS Strategic Plan, are shown on Attachment Two. The committee shall review this list and generate a recommendation.

6. Emergency Vehicle Preemption

A number of local agencies in the region utilize Emergency Vehicle Preemption (EVP) to accommodate the safe passage of

3. For information and discussion.

4. For information and discussion.

5. For information, discussion and possible action to recommend ITS projects for programming in the FY 2015, FY 2016 and FY 2017 Transportation Improvement Program.

6. For information and discussion.

emergency vehicles at signalized intersections. Nearly 45 percent of the region's 3026 signalized intersections have EVP. There are just two key vendors that manufacture EVP equipment used by local agencies – GTT (formerly 3M Opticom) and TOMAR. The committee has been requested to investigate the possibility of standardizing the signal preemption operation across the MAG region and incorporating a standard EVP confirmation light, as ways to reduce crashes involving emergency vehicles.

7. Reports by Committee Members

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

8. 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.

9. Next Meeting Date and Place

The next committee meeting is scheduled to be held at 10:00 a.m. on Wednesday, January 9, 2013. It will be held in the Ironwood Room on the 2nd Floor of the MAG office building.

Adjournment

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 7, 2012
MAG Ironwood Room, 2nd Floor
302 North First Avenue
Phoenix, Arizona

MEMBERS ATTENDING

Farzana Yasmin for Reza Karimvand, ADOT	Faisal Saleem for Nicolaas Swart, Maricopa County
+ Soyoung Ahn, ASU	Avery Rhodes, City of Mesa
Margaret Boone for Bennie Robinson, City of Avondale	Ron Amaya, City of Peoria
+ Thomas Chlebanowski, Town of Buckeye	Marshall Riegel, City of Phoenix
Mike Mah, City of Chandler	Nancy Steptoe, Phoenix Public Transit
Captain Burley Copeland, DPS	+ Bill Birdwell, Town of Queen Creek
Jorge Gastelum, City of El Mirage	Steve Ramsey for Bruce Dressel, City of Scottsdale
Jennifer Brown, FHWA	Albert Garcia for Nicholas Mascia, City of Surprise
Erik Guderian, Town of Gilbert	Catherine Hollow, City of Tempe
Allan Galicia for Debbie Albert, City of Glendale	Ratna Korepella, RPTA
Hugh Bigalk for Luke Albert, City of Goodyear	

OTHERS PRESENT

Steve McKenzie, Peoria	Tricia Boyer, Mesa
Janice Simpson, Avondale	Giao Pham, Apache Junction
Jay Yenerich, PB	Trevor Ebersole, Glendale
David Lucas, City of Tempe	Lee Jimenez, MCDOT
Steve Blair, ITS Engineers	Keith Winney, UCG
Deanna Haase, KHA	Dan Hartig, Ayres Associates
Joey Paskey, ATKINS	Marta Gerber, Michael Baker Jr.
Chuck O'Connor, Rhythm Engineering	Don Wiltshire, YSMA
Jeff Jenq, OZ Engineering	Anitha Shanker, Stantec
Bo Gao, Stanley	Ryan Gish, MAG
Teri Kennedy, MAG	Sarath Joshua, MAG
Leo Luo, MAG	Kiran Guntupalli, MAG

+ Not present
** Teleconference

1. **Call to Order**

Vice Chair Catherine Hollow called the meeting to order at 9:32 a.m.

2. Approval of the October 3, 2012 Meeting Minutes
One minor correction was noted. Ron Amaya moved, Mike Mah seconded and it was unanimously carried to approve the minutes of the meeting held on October 3, 2012.

3. Call to Audience
Vice 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:
 - TSOP Projects
 - FY 2011 TSOP two on-going projects
 - Bell Road Corridor Signal Optimization – Glendale portion timing is updated. ADOT signals need to be synchronized with Phoenix signals.
 - Avondale - Development and implementation of new signal timing plans – Project completed
 - FY 2012 thirteen TSOP projects including five B/A evaluations
 - four projects completed incl. SYNCHRO training
 - nine projects underway
 - All projects will be completed by the end of January
 - FY 2013 TSOP Call for Projects
 - Applications due to MAG on Friday Nov 9, 2012
 - Funds available for projects \$243,000
 - All projects completed by June 30, 2013
 - Current MAG on-call consultant list
 - Special Committee meeting scheduled at 10:00 on Thursday, November 15 for recommendations.
 - 2013 ITS Committee Meeting Schedule
 - An updated meeting schedule was provided at the meeting
 - Evaluation of CMAQ Projects and Air Quality Scores
 - Dean Giles from MAG Environmental Division presented the air quality scores for all 35 proposed ITS projects
 - ITS Strategic Plan
 - The ITS Strategic Plan is recommended by TRC to MAG Management Committee

5. ITS Project Presentations
Representatives from ADOT, Avondale, Goodyear, Glendale, Tempe, Phoenix, apache Junction, Chandler and Gilbert presented 17 of the 35 applications in response to MAG call for ITS projects on October 3 committee meeting. The remaining 18 projects were presented by the individuals listed below:
MES-ITS-1, MES-ITS-2, MES-ITS-3: Avery Rhodes from Mesa
MMA-ITS-1, MMA-ITS-2, MMA-ITS-3: Faisal Saleem and Bob Steele from Maricopa County
PEO-ITS-1, PEO-ITS-2, PEO-ITS-3: Ron Amaya from Peoria
PHX-ITS-1, PHX-ITS-3, PHX-ITS-4: Marshall Riegel from Phoenix

SCT-ITS-1, SCT-ITS-2, SCT-ITS-3: Steve Ramsey from Scottsdale
SUR-ITS-1: Albert Garcia from Surprise
TMP-ITS-2, TMP-ITS-3: Catherine Hollow from Tempe

6. Air Quality Scores and Project Ranking

Sarath mentioned that MAG GIS Division has produced maps for all proposed ITS projects. Committee members are encouraged to review and comment on the accuracy of the maps by Friday, November 9, 2012. Leo Luo briefly explained the use of the ITS project ranking sheet by combining both the CMP scores and the air quality scores. He further explained how the individual committee member rankings will be compiled into a final committee ranking for all the 35 proposed ITS projects. Sarath mentioned that the updated ranking sheet based on committee comments will be provided shortly after the committee meeting. The rankings are due to Leo on November 16, 2016.

7. Reports by Committee Members

No updated report is received.

8. Request for Future Agenda Items

No future agenda items were received.

9. Next Meeting Date and Place

Next meeting will be held at 10:00 a.m. on Thursday, November 15, 2012, in the Ironwood Room (2nd floor) at MAG.

Adjournment

Vice Chair Catherine Hollow adjourned the meeting at 11:26 a.m.

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

November 15, 2012
MAG Ironwood Room, 2nd Floor
302 North First Avenue
Phoenix, Arizona

MEMBERS ATTENDING

**Farzana Yasmin for Reza Karimvand,
ADOT
+Soyoung Ahn, ASU
Jeff Brennan for Bennie Robinson, City
of Avondale
**Daymara Cesar for Thomas
Chlebanowski, Town of Buckeye
**Mike Mah, City of Chandler
Captain R. Brant Benham, DPS
+Jorge Gastelum, City of El Mirage
**Jennifer Brown, FHWA
+Erik Guderian, Town of Gilbert
**Debbie Albert, City of Glendale
+Luke Albert, City of Goodyear

**Faisal Saleem for Nicolaas Swart,
Maricopa County
Suresh Shrimavle for Ratna Korepella,
Metro/RPTA
Avery Rhodes, City of Mesa
**Ron Amaya, City of Peoria
**Bruce Littleton for Marshall Riegel, City
of Phoenix
Nancy Steptoe, Phoenix Public Transit
+Bill Birdwell, Town of Queen Creek
**Steve Ramsey for Bruce Dressel, City of
Scottsdale
**Albert Garcia for Nicholas Mascia, City
of Surprise
Catherine Hollow, City of Tempe

OTHERS PRESENT

Tricia Boyer, Mesa
Anita Shanker, Stantec
Leo Luo, MAG

Sarath Joshua, MAG
Kiran Guntupalli, MAG

+ Not present
** Teleconference

1. **Call to Order**

Vice Chair Catherine Hollow called the meeting to order at 10:06 AM.

2. **Call to Audience**

Vice 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.

3. **Recommendation of Projects for FY 2013 Traffic Signal Optimization Program (TSOP)**

A total of 12 projects including Before and After Studies were received, requesting for \$315,000, which exceeds the available funding of \$243,000. All projects included an implementation component of new signal timing. Three options were presented at the committee meeting. After a brief discussion, **Bruce Littleton moved, Ron Amaya**

seconded and it was unanimously carried to recommend the list of projects of the third option to be included in the FY2013 TSOP program. This list will be included for review and recommendation by TRC on December 6, 2012.

4. 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 December 5, 2012.

Adjournment

Vice Chair Catherine Hollow adjourned the meeting at 10:31 a.m.

Summary of FY2013 TSOP Project Applications

Project #	Agency	Project Type	Consultant Project Scope	# of intersections	Estimated Cost
TS13-01	Gilbert	Traffic Data Collection & Evaluation	Gather turning movement data required by agency to optimize signals on 4 major corridors plus additional intersections. Perform a Before & After travel time study upon signal optimization by agency staff.	18	\$15,000
TS13-02	Glendale	Traffic Data Collection & Evaluation	Gather traffic data required by agency. Perform an evaluation of queue delay upon signal optimization by agency staff.	7	\$10,000.00
TS13-03	Maricopa County	Traffic Data Collection & Signal Optimization	Gather traffic data and develop optimized signal timing for 6 intersections for 4 time periods.	6	\$25,000.00
TSBA13-03	Maricopa County	Evaluation	Perform a Before & After travel time study.		\$5,000.00
TS13-04	Mesa & Gilbert	Traffic Data Collection & Evaluation	Collect turning movement counts at 8 freeway interchanges and 22 adjacent intersections. Perform a study on Before & After travel times and potential queue delays, upon signal optimization by agency staff.	30	\$35,000.00
TS13-05	Peoria	Adaptive Control Evaluation	Gather traffic data and develop weekday timing plans for 4 intersections along Bell Road. Evaluate the performance of optimized timing in comparison to the InSync adaptive traffic control system.	4	\$25,000.00
TS13-06	Phoenix & ADOT	Freeway-Arterial Corridor Signal Optimization	Signal Timing for I-10 Integrated Corridor Mgmt Scenarios: Develop optimized timing for 6 parallel arterials for potential EB/WB freeway closures at various locations along I-10 from 35th Ave to 59rd Ave	52	\$50,000.00
TS13-07	Phoenix & ADOT	Freeway-Arterial Corridor Signal Optimization	Signal Timing for I-10 Integrated Corridor Mgmt Scenarios: Develop optimized timing for 6 parallel arterials for potential EB/WB freeway closures at various locations along I-10 from 59th Ave to 83rd Ave	43	\$43,000.00
TS13-08	Tempe	Signal Optimization	Develop the SYNCHRO model, gather field data & develop optimized signal timing for 16 intersections along McClintock Road from Curry to Watson	16	\$25,000.00
TSBA13-08	Tempe	Evaluation	Perform a Before & After travel time study		\$10,000.00
10 Projects				176	\$243,000.00

FY2015

Agency	Project	Category	Preferred FY	CMAQ Request	Sum of Ranks	FINAL Rank	Option#1 Recommendation for FY2015
ADOT	ADOT-ITS-1	Integrated Corridor Mgmt	FY2015	\$51,045	74	1	1
Tempe	TMP-ITS-1	Integrated Corridor Mgmt	FY2015	\$287,752	87	2	2
Maricopa County	MMA-ITS-1	Integrated Corridor Mgmt	FY2015	\$2,315,065	119	3	3
Chandler	CHN-ITS-1	Arterial ITS	FY2015	\$511,766	160	4	4
Mesa	MES-ITS-1	Arterial ITS	FY2015	\$233,864	161	5	5
Scottsdale	SCT-ITS-3	Arterial ITS	FY2015	\$380,040	168	6	6
Goodyear	GDY-ITS-1	Integrated Corridor Mgmt	FY2015	\$219,876	188	8	7
Phoenix	PHX-ITS-1	Arterial ITS	FY2015	\$854,811	208	9	8
Phoenix	PHX-ITS-3	Arterial ITS	FY2015	\$730,891	221	10	9
Avondale	AVN-ITS-1	Arterial ITS	FY2015	\$508,579	226	11	10
Apache Junction	APJ-ITS-1	Local ITS Plans	FY2015	\$141,450	439	34	11

\$6,235,139

11 projects

Available

\$6,234,885

Remaining

-\$254

FY2016

Agency	Project	Category	Preferred FY	CMAQ Request	Sum of Ranks	FINAL Rank	Option#1 Recommendation for FY2016
Mesa	MES-ITS-3	Arterial ITS	FY2016	\$56,580	168	6	1
Glendale	GLN-ITS-1	Arterial ITS	FY2016	\$904,728	228	12	2
Mesa	MES-ITS-2	Arterial ITS	FY2016	\$655,385	230	13	3
Chandler	CHN-ITS-2	Arterial ITS	FY2016	\$633,281	250	14	4
Glendale	GLN-ITS-2	Arterial ITS	FY2015	\$555,470	255	15	5
Peoria	PEO-ITS-1	Arterial ITS	FY2015	\$206,772	256	16	6
Scottsdale	SCT-ITS-1	Arterial ITS	FY2016	\$678,960	282	18	7
Tempe	TMP-ITS-2	Arterial ITS	FY2016	\$983,626	282	18	8
Glibert	GLB-ITS-2	Arterial ITS	FY2016	\$546,072	302	23	9
Glibert	GLB-ITS-1	Arterial ITS	FY2015	\$549,599	307	24	10
Avondale	AVN-ITS-2	Integrated Corridor Mgmt	FY2016	\$424,498	318	27	11

\$6,194,971

11 projects

Available

\$6,287,258

Remaining

\$92,287

FY2017

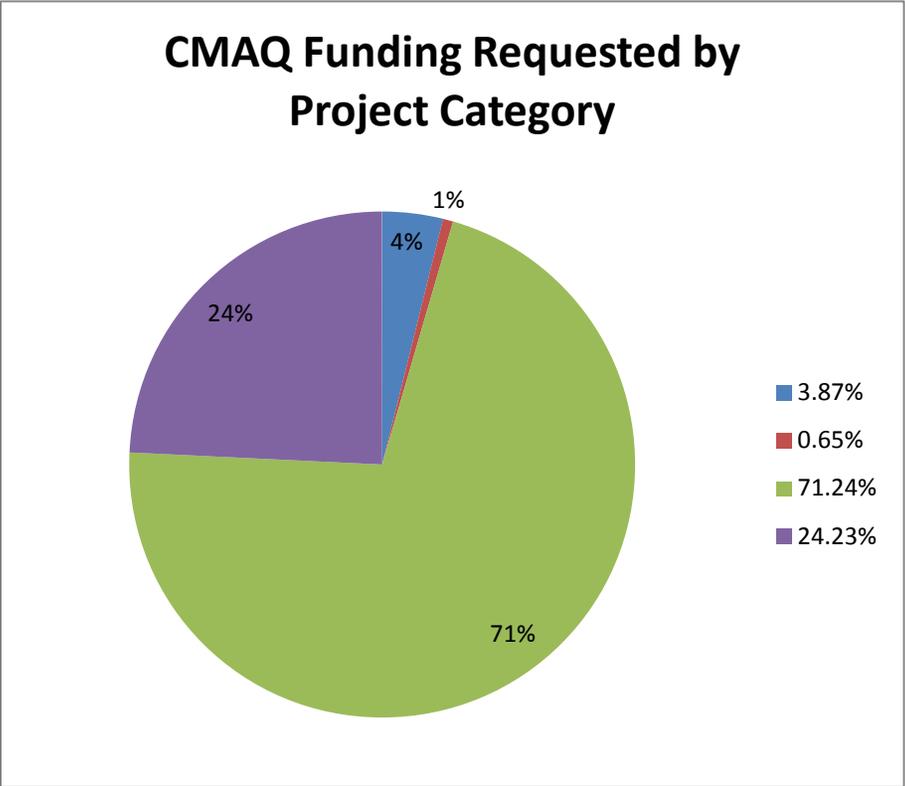
Agency	Project	Category	Preferred FY	CMAQ Request	Sum of Ranks	FINAL Rank	Option#1 Recommendation for FY2017
Peoria	PEO-ITS-3	Arterial ITS	FY2017	\$482,345	271	17	1
Phoenix	PHX-ITS-4	Arterial ITS	FY2017	\$566,507	287	20	2
Scottsdale	SCT-ITS-2	Arterial ITS	FY2017	\$678,960	295	21	3
Maricopa County	MMA-ITS-2	Arterial ITS	FY2017	\$429,988	301	22	4
Surprise	SUR-ITS-1	Arterial ITS	FY2017	\$804,851	314	25	5
Tempe	TMP-ITS-3	Arterial ITS	FY2017	\$887,390	317	26	6
Maricopa County	MMA-ITS-3	Arterial ITS	FY2016	\$734,295	325	28	7
Goodyear	GDY-ITS-2	Arterial ITS	FY2016	\$820,001	344	29	8
Phoenix	PHX-ITS-2	ITS Safety	FY2015	\$839,597	452	35	9
Glendale	GLN-ITS-3	Integrated Corridor Mgmt	FY2015	\$1,222,193	370	30	10
Avondale	AVN-ITS-3	Arterial ITS	FY2016	\$419,118	379	31	11
Avondale	AVN-ITS-4	Integrated Corridor Mgmt	FY2017	\$731,990	383	32	12
Peoria	PEO-ITS-2	Arterial ITS	FY2016	\$630,113	399	33	13

	\$6,243,934	13 projects
Available	\$6,340,071	
Remaining	\$96,137	

FY2015-FY2017 CMAQ Funding Requests

Project Category	Total Requests	Percentage	ITS Strategic Plan Target
ITS Applications that Improve Safety	\$839,597	3.87%	20%
Local ITS Plans	\$141,450	0.65%	5%
Arterial ITS	\$15,443,992	71.24%	50%
Integrated Corridor Mgmt	\$5,252,419	24.23%	25%

\$21,677,458



Option#1 Recommendation for FY2015-FY2017 ITS projects

Project Category	Total Requests	Percentage	ITS Strategic Plan Target	# of projects
ITS Application that Improve Safety	\$839,597	4.50%	20%	1
Local ITS Plans	\$141,450	0.76%	5%	1
Arterial ITS	\$14,394,761	77.08%	50%	24
Integrated Corridor Mgmt	\$3,298,236	17.66%	25%	5

\$18,674,044 31

Available \$18,862,214

Remaining \$188,170

