



March 25, 2019

TO: Members of the MAG Intelligent Transportation Systems Committee

FROM: Chris Hamilton, City of Avondale, Chair

SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Wednesday, April 3, 2019 - 10:00 a.m.
MAG Office Building, 2nd Floor, Saguaro 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 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 Jeff Jenq at (602) 254-5031.

TENTATIVE AGENDA

COMMITTEE ACTION REQUESTED

1. Call to Order

For the April 3, 2019 meeting, the quorum requirement is 11 committee members.

2. Approval of minutes from the ITS Committee meeting held on February 6, 2019.

3. Call to the 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. Staff Report

The following items will be discussed:

- FY 2020-2022 ITS and Safety On-Call
- Regional ITS Architecture Update
- FY 2019 TSOP project update
- MAG-Public Universities Task Force
- Emergency Vehicle Preemption (EVP) Working Group
- TSOP Forum
- Arizona TSMO Summit Capability Maturity Model (CMM) Workshop

2. Review and approve minutes of the meeting held on February 6, 2019.

3. For information.

4. For information and discussion.

5. FY 2020-2022 SM&O TIP Non-Competitive Project Overview

On August 26, 2018, the MAG Regional Council approved the Systems Management and Operations Plan (SM&O), allocating approximately \$80 million of regional sub-allocated federal aid to specific project areas for Phase I of the Plan. At this time, MAG is requesting project overviews from agencies identified in the SM&O Plan classified as non-competitive. The due date for project overviews is on or before 10:00 a.m., April 22, 2019, for consideration of federal aid funding and programming in federal fiscal years 2020-2022.

6. ARID Data Regional Compatibility

Anonymous Re-Identification Detection (ARID) sensors have been deployed in several jurisdictions in MAG region. The lack of standard in anonymizing the MAC address resulted in incompatible data between vendor products that limit the applications across jurisdictions.

City of Phoenix will share their experience of successful integration of different brands of ARID sensor data. This experience has important implications in providing regional compatibility among ARID systems operated by regional partners.

7. Arizona TSMO Summit and Capability Maturity Model (CMM) Workshop

FHWA Arizona Division will provide an update and solicit input to the Arizona TSMO Summit and Capability Maturity (CMM) Workshop planned for June 18-20, and May 14, 2019.

5. For information.

6. For information and discussion.

7. For information and discussion.

8. Reports by Committee Members

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

9. Request for Future Agenda Items

Topics or issues of interest that members 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, May 1, 2019. It will be held in the Ironwood Room on the 2nd Floor of the MAG office building.

11. Adjournment

8. For information and discussion.

9. For information and discussion.

10. For information.

11. Motion to adjourn.

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

February 6, 2019

MAG Ironwood Room, 2nd Floor

302 North First Avenue

Phoenix, Arizona

MEMBERS ATTENDING

- | | |
|---|---|
| # Chris Hamilton, City of Avondale (Chair) | # Rob Dolson, City of Maricopa |
| Susan Anderson, ADOT | Tricia Boyer, City of Mesa |
| Raquel Schatz, City of Apache Junction | Steve McKenzie, City of Peoria |
| * Yingyan Lou, ASU | Simon Ramos for Bruce Littleton, City
of Phoenix |
| John Willett, City of Buckeye | Scott Nodes, Pinal County |
| * Dana Alvidrez, City of Chandler | * Mohamed Youssef, Town of Queen Creek |
| * Sergeant Stuart McGuffin, DPS | Hong Huo, City of Scottsdale |
| * Tessa Wessel, City of El Mirage | # Albert Garcia, City of Surprise |
| # Rajnish Gupta, Town of Gilbert | David Lucas, City of Tempe |
| Allan Galicia, City of Glendale | Steve Chayt, Valley Metro |
| Luke Albert, City of Goodyear | |
| April Wire for Nicolaas Swart,
Maricopa County | |

EX-OFFICIO NON-VOTING MEMBERS ATTENDING

- # Toni Whitfield, FHWA

OTHERS PRESENT

- | | |
|------------------------------|-------------------------------------|
| Dan Hartig, Ayres | Pablo Osuna, Jacobs |
| Don Wiltshire, YSMA | Tomas Guerra, OZ Engineering |
| Sandy Thoms, WSP | Lisa Burgess, Kimley-Horn |
| Dave Chambers, TransCore | Marshall Riegel, FLIR |
| Rumpa Dey, Wood | Adrienne Gers, Neenah Foundry |
| Amara Ibeji, CK Group | Felipe Ladron de Guevara, Kittelson |
| Vivi Somphon, CivTech | Cory Steele, Strand |
| Collete Frohlich, Greenlight | Vladimir Livshits, MAG |
| Andy Murray, AECOM | Teri Kennedy, MAG |
| Smitha Kundar, Michael Baker | Margaret Herrera, MAG |
| Chris Lemka, City of Peoria | Jeff Jenq, MAG |
| Amy Garinger, Kimley-Horn | Eric Nava, MAG |
| Skye Gentile, Parsons | Lan Jiang, MAG |
| Allen Barakovic, Jacobs | Mohammad Shaheed, MAG |

* Not present or represented by proxy

Participated by teleconference

+ Participated by videoconference

1. Call to Order

Vice Chair David Lucas called the meeting to order at 10:03 a.m. and conducted introductions.

2. Approval of the Minutes from ITS Committee meeting held on January 9, 2019

Vice Chair Lucas requested approval of the meeting minutes from the January 9th ITS Committee meeting. **Tricia Boyer with City of Mesa moved, Scott Nodes with Pinal County seconded, and it was unanimously carried to approve the minutes of the meeting held on January 9, 2019.**

3. Call to Audience

Vice Chair Lucas 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. Staff Report

Vice Chair Lucas invited Jeff Jenq with MAG to present the Staff Report. Mr. Jenq addressed the following items in the report:

- Northern Parkway Intelligent Transportation Systems Infrastructure Study
The purpose of the study is to identify Intelligent Transportation (ITS) infrastructure needed on the Northern Parkway between Loop 101 and Loop 303 freeways. The project has been completed. The Final Report can be found on the MAG website.
- Study to Develop a Methodology for Evaluation of New Traffic Detectors
The goal of the project is to recommend a methodology that will help local agencies evaluate the performance of traffic detection devices. MAG, along with the working group members and the consultant, held a meeting to address the issue of unavailability of count data from the selected test sites. It was decided to extend the timeline of the project task order to June 30, 2019, so that the City of Phoenix testbed, anticipated to be completed in Spring 2019, can be utilized to collect data for testing the methodology. MAG amended the task order to extend the timeline of the project with the consultant. Updates will be provided to the Committee once the testbed is able to extract the necessary data.
- FY 2019 Regional ITS Architecture Update
An upcoming FY 2019 On-Call project will be underway to update the current MAG Regional ITS Architecture to the current web-based implementation of the Regional ITS Architecture to be consistent with the latest version of the National ITS Architecture that is referred to as the Architecture Reference for Cooperative and Intelligent Transportation (ARC-IT) Version 8.1. The request for proposal from up to three qualified consultants from the MAG ITS On-Call went out in early January. Selection of the consultant will be made in February by an evaluation team made of local member agency staff and MAG staff, and the Notice to Proceed is anticipated to be issued in March. The anticipated completion of the project would be in December 2019.
- FY 2019 Traffic Signal Optimization Program (TSOP) Projects
Ten applications were submitted by local member agencies, and recommended by the ITS

Committee in November 2018, including two projects submitted by MAG. The MAG Regional Council approved the recommended list of projects on January 30. Consultants from the MAG ITS & Safety On-Call have been assigned to the list of TSOP projects. The scope of work for each project is being developed, and it is anticipated that all projects will begin in February.

➤ FY 2020-2021 Unified Planning Work Program (UPWP) Projects

The MAG UPWP anticipated projects of work based on planning priorities identified by the region. The MAG UPWP will be moving to a two-year cycle. A list of projects for FY 2020-2021 have been proposed based on activities under the ITS Committee. The proposed list of projects were developed based on the anticipated activities brought forth by the Systems Management & Operations (SM&O) Plan.

➤ Future Committee Discussions

There will be two topics of discussion that will be brought up in future Committee meetings. The two topics are performance measurement methodology and regional guidance for ARID implementation. Performance measurement and evaluation of the transportation system are major elements for the SM&O Plan, including Integrated Corridor Management (ICM). Committee input will be needed in the discussion to provide direction on the use of system wide data for performance measurement and evaluation, including some variation of a user-specific workshop on use of third party travel time data, such as the statewide INRIX data purchased by ADOT. The second topic, brought up by City of Phoenix, would discuss the installation and use of ARID devices in many jurisdictions and the compatibility of data integration across jurisdictional boundaries limits the capability of useful information from a regional standpoint. The Committee will have future discussion on consistency method of data integration and regional data sharing through some type of mapping interface.

5. FY 2019-2021 ITS On-Call Consultant Qualification

Vice Chair Lucas invited Margaret Herrera with MAG to introduce the item. On December 20, 2019, twenty-six firms submitted Statement of Qualifications (SOQ) in response to the FY 2019-2021 ITS & Safety On-Call Consulting Services Request for Qualifications (RFQ). Twenty-three firms submitted to qualify for the four ITS Areas of Expertise identified in the RFQ. An evaluation team received, reviewed and scored the SOQs submitted, and the evaluation team met on January 28, 2019 to discuss and finalize scores.

The four Areas of Expertise were Traffic Signal Operations, Integrated Corridor Management, Systems Management and Operations Planning, and Systems Management and Operations Training. Twenty-three firms submitted for Traffic Signal Operations and fifteen firms qualified. Thirteen firms submitted for Integrated Corridor Management and seven firms qualified. Fourteen firms submitted for Systems Management and Operations Planning and six firms qualified. Nine firms submitted for Systems Management and Operations Training and five firms qualified. The number of firms qualified for each Area of Expertise was determined by the expected amount of work per Area of Expertise.

Committee action was requested to recommend the ranked list of consultants for the MAG ITS

On-Call Consulting Services. **Tricia Boyer with City of Mesa moved, Steve Chayt with Valley Metro seconded, and it was unanimously carried to approve the recommended ranked list of consultants for MAG ITS On-Call Consulting Services.**

6. City of Peoria FY 2019 Project Scope Change

Vice Chair Lucas invited Chris Lemka, City Traffic Engineer with the City of Peoria, to speak to the item. The City of Peoria was requesting a project change for ITS project PEO 19-760. This project was part of the FY 2017-2019 TIP Call for Projects held in 2015. This was the second requested change on this project. The original scope of the project identified twelve intersections to be converted to flashing yellow arrow. The first amendment to the project scope was to change six of the twelve to a different six intersections due to the six original intersections were already replaced and upgraded. The first scope change was requested and amended in early 2018.

Due to recent changes at the City of Peoria, the City did not have the resources to complete the project by the 2019 timeframe. In September 2018, the City requested of MAG a deferral from FY 2019 to FY 2021. With the deferral of the project to FY 2021, many of the twelve intersections in the project scope will be addressed before FY 2021.

The new scope change request would reduce the number of intersections from twelve to five intersections. The conversion of the five intersections to flashing yellow arrow would not be a simple swap of a signal heads due to the complexity of the intersections. The requested scope change would also consist of new section heads, mast arms, wiring, signal cabinet, and signal controller.

Luke Albert with the City of Goodyear asked for clarification if the five intersections were part of the twelve intersections in the original project scope. Mr. Lemka replied that a field assessment was performed City of Peoria staff to identify whether it made sense to change the section heads and mast arms without the need for new foundations and poles, as well as determining whether other intersections would be more viable, and some intersections were changed out for other intersections. The City anticipates that either new developments or local CIP funding will address a majority of the twelve intersections by FY 2021. The five intersections that were identified in this project scope could wait until FY 2021 to be converted.

Committee action was requested to recommend approval of the requested project scope change. **Allan Galicia with City of Glendale moved, Scott Nodes with Pinal County seconded, and it was unanimously carried to recommend approval of the requested project scope change.**

7. Reports by Committee Members

Vice Chair Lucas called on members to report items of interest to the committee.

Rajnish Gupta with Town of Gilbert reported that three positions will be open and advertised by the end of the month.

Rob Dolson with City of Maricopa reported on an open position currently available.

Toni Whitfield with FHWA reported on a future event being planned for the region tentatively called the Arizona Academy and Summit. In Fall 2018, the Arizona division office submitted a request for service to the FHWA Resource Center for support and knowledge transfer for three topics: the use of decision support systems and data needs for integrated corridor management, smart region initiatives, and local TSMO academy for executive and novice staff. It is anticipated that the event would take place sometime between mid-May and early June. If there are any other events taking place within the proposed timeframe, please contact Ms. Whitfield. Lastly, member agencies should begin to considering which executive and novice staff should attend the Academy to learn more about TSMO.

Allan Galicia with the City of Glendale reported that two positions will be open and advertised soon. Mr. Galicia also notified that a major concert event at the football stadium would be taking place on March 23.

Susan Anderson with ADOT reported on having a half-day training workshop on the INRIX data and data platform that has been made available to local agencies statewide. Any feedback on the best timeframes for the event and experience from local agencies on the data platform are welcomed. Travel time along I-17 metro Phoenix to Flagstaff has been made active on the DMS boards for travelers. The Request for Proposals has been issued for the general consultant on the Loop 101 Mobility ICM project. Submission of proposals are due the end of February.

8. Request for Future Agenda Items

Vice Chair Lucas called on members to request future agenda items. There were no requests. Any future requests should be provided to MAG staff.

9. Next Meeting Date and Place

Vice Chair Lucas announced that the next meeting will be held at 10:00 a.m. on Wednesday, March 6, 2019, in the Ironwood Room (2nd floor) at MAG.

10. Adjournment

Vice Chair Lucas called for motion to adjourn the meeting at 10:42 a.m. Steve Chayt with Valley Metro moved, Allan Galicia with City of Glendale seconded, and it was unanimously carried to adjourn the meeting.