

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

March 4, 2014

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

**MEMBERS ATTENDING**

Farzana Yasmin for Reza Karimvand, ADOT	Paul Porell for Nicolaas Swart, Maricopa County
Chris Hamilton, City of Avondale	Tricia Boyer for Avery Rhodes, City of Mesa
+ Thomas Chlebanowski, Town of Buckeye	* Ron Amaya, City of Peoria
* Mike Mah, City of Chandler	Marshall Riegel, City of Phoenix
Danny Roark for Captain Burley Copeland, DPS	+ Steve Ramsey, City of Scottsdale
Bryce Christo, City of El Mirage	Albert Garcia for Jason Mahkovtz, City of Surprise
+ Toni Whitfield, FHWA	+ Catherine Hollow, City of Tempe
* Leslie Bubke for Erik Guderian, Town of Gilbert	Ratna Korepella, Valley Metro
Allan Galicia for Debbie Albert, City of Glendale	
Luke Albert, City of Goodyear	

**OTHERS PRESENT**

Jim Lee, Lee Engineering	Joey Paskey, Atkins
Sarah Simpson, UCG	Eric Gudino, ADOT
Deanna Haase, KHA	Tim Wolfe, Dibble
Bo Gao, Stanley Consulting	Arnab Gupta, PB
David Riley, UCG	Vinay Vanapalli, Stantec
Cory Steele, Strand	Chaun Hill, MAG
John Willett, CivTech	Micah Henry, MAG
Susan Medland, Traffic Res. & Analysis	Margaret Boone, MAG
Dan Hartig, Ayres Associates	Eric Nava, MAG

+ Not present

\* Teleconference

1. Call to Order  
Vice Chair Marshall Riegel called the meeting to order at 10:04 a.m.
2. Approval of the January 8, 2014 Meeting Minutes  
**Allan Galicia from City of Glendale moved, Paul Porell from Maricopa County seconded and it was unanimously carried to approve the minutes of the meeting held on January 8, 2014.**
3. Call to Audience  
Vice 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

Mr. Sarath Joshua from MAG addressed the following items in his report:

- Status of TSOP Projects:
  - The list of TSOP projects for FY2014:
    - Recommended by ITS Committee on 11/05/2013
    - Recommended by Transportation Review Committee on 12/12/2013
    - Recommended by Management Committee on 01/08/2014
    - Approved by Regional Council on 01/29/2014
  - The planned completion of all TSOP projects is before June 30, 2014
  - The FY2015 Work Plan includes \$300,000 for TSOP
    - Approval in May 2015
    - Call for new projects in June 2015
  - Status of current TSOP projects
    - Projects have been assigned to On-Call Consultants
    - 7 projects are in the “Scoping” stage, 3 projects are in the “Fee Proposal” stage and 1 project has been completed.
- Integrated Corridor Management (ICM) projects in Tempe and Phoenix
  - I-10 ICM effort is continuing in Phoenix, in partnership with ADOT, MCDOT & DPS, with two projects with east-west coverage between 35<sup>th</sup> Avenue and 83<sup>rd</sup> Avenue and north-south coverage between McDowell Road and Van Buren Road
    - The two projects are primarily related to signal timing strategies
  - US 60 ICM effort is beginning in Tempe, in partnership with ADOT, MCDOT & DPS, with two projects with east-west coverage between Evergreen Road and 48<sup>th</sup> Street and north-south coverage between Broadway Road and Guadalupe Road
    - The two projects are starting the ICM effort, including Concept of Operations, draft IGAs and signal timing strategies
  - 24/7 Operational Concept: MCDOT TMC will serve as the signal operator when two city TMCs are not in operation
  - MAG DynusT model will be used exclusively to explore traffic management operations and impact analysis of strategies
  - The expected outcome for these two city efforts is to generate efficient signal timing strategies for mitigating and reducing traffic congestion during full freeway closures
- FHWA Survey on Planning for Operations (handout provided on MAG survey results)
  - The overall survey summarized how MPOs have incorporated Transportation System Management & Operations projects into the TIP. The FHWA survey was focused mostly on Operations Infrastructure.
  - MAG participated in the survey and provided information on how funds are programmed for ITS infrastructure

5. RCN Update

Vice Chair Riegel invited Ryan Gish from MAG to give an update for the RCN latest developments. Mr. Gish discussed a project for network services via the ITS on-call contracts. The project application went out to member agencies which would provide network assessment and network configuration. Mr. Gish received 3 responses. The next

step is to develop the scope of work for each of the requested network assessments. Next, Mr. Gish discussed IT training with member agency TMC staff. Mr. Gish was looking for feedback on what topics to cover for possible one-day training. Mr. Sarath Joshua added that funds for such training have already been programmed by MAG and the training would best serve TMC staff in ITS operations. Mr. Mike Mah from the City of Chandler was in support of the training as their TMC would benefit to better operations. Mr. Gish then provided information regarding the fiber mapping project in which a regional map will be created mapping all fiber and fiber conduit connectivity. The terms and user agreement documentation has been drafted and will be sent to member agencies. The end goal would be to create an interactive, online map for participating member agencies to view on a regional scale of possible fiber connectivity to serve their agency. The website would have a secure login available to only participating member agencies. Last, Mr. Gish provided an update to the video management system pilot project. Currently, there are 7-8 agencies that are participating in the pilot program and he is assisting any participating member agencies in using the video management system.

6. Planned Freeway Management System (FMS) Projects

Vice Chair Riegel invited Farzana Yasmin from ADOT to give an update to the latest changes to the planned FMS projects and for possible action to recommend approval of the planned FMS projects. Ms. Yasmin briefed the committee of the proposed modifications to the planned FMS expansion, including the replacement of 87 passive acoustic detectors (PADs) with induction loops by 2015. A handout of a map and a table of the proposed FMS expansion and completion year through 2025 was given to the committee. The funds would be shared between state and CMAQ funds. The distribution of funds through 2025 was given in the handout. Ms. Yasmin provided a breakdown of each year what projects would be completed. Ms. Yasmin pointed out that that additional fund would become available in the years 2020 through 2025 that have not been assigned to specific projects. Vice Chair Riegel gave a call to action to recommend approval of the proposed planned FMS projects. Mr. Paul Porell from Maricopa County suggested that a comprehensive re-evaluation of the current FMS infrastructure be conducted as current technology will become outdated. It was suggested that additional funds, possibly available funds not assigned to projects after the year 2020, be used for a study of the FMS infrastructure. Mr. Sarath Joshua of MAG agreed that a study of the current infrastructure would be beneficial and added that a comprehensive survey of the state of practice throughout the U.S. would serve well to understand what would serve best for the region in the future. However, waiting until 2020 funds are available for a study would be too long of a wait. Mr. Porell suggested that the study be performed within 3 years. **Mr. Paul Porell from Maricopa County made a motion to recommend approval of the proposed modified plan for FMS expansion with the stipulation that a comprehensive re-evaluation study of the life-cycle of current FMS infrastructure be performed by the year 2017. Mr. Mike Mah from the City of Chandler seconded. It was unanimously carried to approve the motion.**

7. Vehicle-to-Vehicle Communications and Implications of Vehicle-to-Infrastructure Communications

Mr. Sarath Joshua provided a brief overview to the committee of ongoing activities related to vehicle-to-vehicle (V2V) and vehicles-to-infrastructure (V2I) communications. The purpose of the overview was to make the committee aware of the fast-developing technology and could have implications for member agencies that operate ITS infrastructure. Mr Joshua pointed out that the National Highway Traffic Safety

Administration (NHTSA) had recently announced the agency would be taking steps to approve V2V communication technology for light vehicles. The expected goal of the technology is to improve safety by reducing crashes as vehicles will be enabled to communicate with each other. USDOT's Connected Vehicle Program is exploring both V2V and V2I. USDOT is conducting a pilot project in Ann Arbor, Michigan. Early results demonstrate interoperability of products from different vehicle manufacturers and product suppliers. V2I communication requires roadside and TMC equipment and communication which would affect local TMC operations. Future V2V communications may include DSRC and cellular communication. Currently, many car manufacturers are developing and installing crash avoidance technology in current model vehicles, such as lane departure warning, side blind-zone alerts and adaptive cruise control. The information was provided to make aware member agencies of the future technology that will affect TMC and field ITS infrastructure and would local agencies be able to realistically support such infrastructure. The committee was encouraged to provide feedback to USDOT on local agency perspectives. Vice Chair Marshall Riegel asked how we start to think forward in regards to high-tech companies such as a possible Tesla manufacturing plant coming to the valley. Mr. Paul Porell from Maricopa County mentioned that the agency is involved with such V2I technology with a SHRP2 pilot study in Anthem. Dedicated Short Range Communication equipment has been installed on EMS and Fire trucks, as well as temporary installations on buses, to demonstrate crash avoidances with emergency vehicles priority and transit priority for buses at intersections. Handheld devices for handicap pedestrians are also being tested at intersection crosswalks.

8. Reports by Committee Members

Vice Chair Marshall Riegel made a call to members of the committee to report items of interest to the committee. Vice Chair Riegel reported that contracts approval for I-10 activities has been completed. Farzana Yasmin from ADOT reported that Loop 101 from I-10 to I-17 contract approval activities is underway. Paul Porell from Maricopa County reported that AZTech recently hosted a FHWA training for evaluating the performance of traffic signal systems. AZTech is also hosting a FHWA regional Capability Maturity Model (CMM) assessment workshop on March 12. Allan Galicia from the City of Glendale reported that ITS construction along Cactus, Thunderbird and Greenway is underway. DMS projects along Peoria and in downtown are out for bid. The first flashing yellow arrow is operating now at 59<sup>th</sup> St. and Olive Ave. Sarath Joshua from MAG reported that there are two SHRP2 funded CMM efforts coming up in the region, one at AZTech and another at ADOT.

9. Request for Future Agenda Items

None.

10. Next Meeting Date and Place

Next meeting date was announced at 10:00 a.m. on Wednesday, April 2, 2014, in the Ironwood Room (2<sup>nd</sup> floor) at MAG.

11. Adjournment

Vice Chair Marshall Riegel adjourned the meeting at 11:00 a.m.