

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

January 7, 2009  
MAG Cholla Room, 2nd Floor  
302 North First Avenue  
Phoenix, Arizona

**MEMBERS ATTENDING**

Lydia Warnick for Scott Nodes, ADOT  
\*Soyoung Ahn, ASU  
Gus Woodman, City of Avondale  
Thomas Chelbanowski, Town of Buckeye  
Mike Mah, City of Chandler  
Mike Lockhart, DPS  
Jerry Horacek City of El Mirage  
Jennifer Brown for Alan Hansen, FHWA  
Ken-Ichi Maruyama, Town of Gilbert  
Avery Rhodes, City of Glendale  
Luke Albert, City of Goodyear

Faisal Saleem for Nicolaas Swart, Maricopa  
County  
Jeff Jenq, City of Mesa  
Ron Amaya, City of Peoria  
Marshall Riegel, City of Phoenix  
Bob Ciotti, Phoenix Public Transit  
Michael Pacelli, Town of Queen Creek  
Bruce Dressel, City of Scottsdale  
Brian Moberly for John Abraham, City of  
Surprise  
\*Jim Decker, City of Tempe  
\*Arkady Bernshteyn, Valley Metro Rail

**OTHERS PRESENT**

Derrick Bailey, Mesa  
Darrell Bingham, ADOT  
Lisa Burgess, KHA Inc  
Yung Cossar, Morrison Maierle  
Eric Maceyko, AMEC  
Bo Gao, TransCore  
Jay Yenerich, Telvent  
Arnab Gupta, Telvent  
Sarath Joshua, MAG  
Leo Luo, MAG

George Frangos, Phoenix  
Jim Holmes, Siemens  
Doug McCants, PBS&J Inc  
Don Wiltshire, Y.S. Mantri  
Natalie Carrick, Olsson Associate  
Gary Rylander, Rylander Consulting  
Bill Meador, Power & Tele Supply  
Jared Hanson, ASU  
Douglas Anderson, ASU  
Kiran Guntupalli, MAG

\*Not present

1. Call to Order  
Chairman Mike Mah called the meeting to order at 10:05 AM.
2. Approval of December 3, 2008 Meeting Minutes  
Jeff Jenq moved, Mike Lockhart seconded and it was unanimously carried to approve minutes of the December 3, 2008 ITS Committee meeting.
3. Call to Audience  
Chairman Mike Mah made a call to the audience providing an opportunity to any members

of the public to address the ITS Committee. No comments were received. Chairman Mike Mah also distributed the roles and responsibilities of the ITS committee to the members.

4. Program Manager's Report

Sarath Joshua distributed the 2009 meeting schedule and latest list of committee members to the committee. He addressed the following items in his report:

• RCN and Related Activities

Lydia Warnick from ADOT briefed the committee on the progress of the RCN Phase 1A project, which includes the fiber and conduit project and the active electronics project. The fiber has been installed at Phoenix Sky Harbor Rental Car Center. Two proposals were received from contractors on statewide wireless on-call contract. Questions regarding these two proposals were raised. The contractors are expected to address the questions today. Sarath Joshua added that the RCN Working Group met prior to the ITS Committee meeting discussed several topics including the governance of RCN and the roles and responsibilities of member agencies. It is suggested that the governance of RCN will follow the regional 911 model. A draft governance document was sent to RCN Working Group for comments. The deadline for comments is due on January 9, 2009 this Friday. Kimley-Horn and Associates also produced a draft roles and responsibilities document. The RCN Working Group decided to utilize PBS&J and TransCore to finalize the roles and responsibility document and the governance document for RCN through MAG on-call contract. The next RCN Working Group meeting will be held at MAG on February 4, 2009.

• TSOP Projects

Sarath Joshua briefed the committee on the assignment of the consultants to the TSOP projects. The request for fee proposal will be issued soon. Avery Rhodes indicated that City of Glendale disagreed with the switch of consultants between Glendale and Surprise. Sarath Joshua mentioned that the consultant assignment is not yet finalized. The needs of Glendale can be addressed after the meeting. The total budget of the TSOP projects is \$282,000. Ron Amaya from Peoria asked if the location and time of the Synchro Training has been decided. Leo Luo mentioned that the training will be held at Maricopa County training facility in late April.

5. Regional ITS Architecture (RIA) Project

Leo Luo briefed the committee the progress of the Regional ITS Architecture project. The project has delivered Technical Memorandum 1, 2, 3 before this meeting. The Project team from Kimley-Horn Associate is revising these Technical Memorandums based on the comments received from the committee. One on one walk through of the ITS architecture with member agencies were conducted in December. The feedbacks from the member agencies will be incorporated into the physical architecture. The project team will work on organizing the Regional ITS Architecture in an easy to understand format so that member agencies can utilize the document to plan for their ITS developments. Sarath Joshua asked where we are in terms of project completion. Leo Luo explained that the project is in the final stage of the physical architecture. The next step is to update the physical architecture based on the comments received. The final step would be organizing the architecture in a final document. Sarath asked if all the comments were received. Leo Luo mentioned that the project team is still waiting for the comments from Transit and MCDOT. By the end of this week, all the comments should come in. Sarath further explained the purpose of the project.

6. Glendale Stadium Congestion Map Pilot Project

Jim Holmes from Siemens made a brief presentation on the Glendale Stadium Congestion Map Prove of Concept project. Four tasks are completed in the project including: Field survey of infrastructure (controllers, detection, and communications); Develop congestion algorithm; Explore means of displaying information over internet to the public; and Develop detailed implementation plan. Faisal Saleem asked if the software can work with other systems other than i2. Jim mentioned that the algorithm can be applied to any system, but the interface to i2 would be unique. He also indicated that if RADS can provide the data, the software could also process the data from RADS and generate the map at a regional level. Chairman Mike Mah asked why the project didn't include intersections along Loop 101. Jim mentioned that except for special events, the selected intersections in the project do not carry heavy traffic volume. Another consideration is the purpose of limiting the scope of the project. Chairman Mike Mah also asked what detection the project will be using. Jim explained that the algorithm can utilize stop bar, mid-block advanced detection or combination of both, but the initial simulation shows that the stop bar detection presents the best results. Jeff Jenq from Mesa asked if the queue length will also be displayed. Jim mentioned that displaying queue length is more challenging and not be considered at this stage. Jeff also asked how the public will perceive the information and utilize it. Jim mentioned that the project will produce the color coded map over internet to provide indication of congestion level on arterial streets. Although the project also investigated displaying the information on DMS on arterial streets, it is beyond the scope of the next phase project. Jim confirmed with Lydia that the web is accessible to cell phones with browser. Jim explained that the thresholds will be set for the congestion level. MAG, City of Glendale and Siemens will meet in the afternoon to discuss in detail on the next phase of the project. Jeff Jenq asked if the video detection is adequately providing the data needed for the project. Jim mentioned that the simulation conducted in the first phase did not involve actual detection data from video detection. However, in the next phase of the project, the project team will address the potential issue.

7. Request for Project Change from Phoenix

This item was discussed in the previous committee meeting. The ITS committee required City of Phoenix to provide more information on the project. Marshall Riegel from City of Phoenix explained to the committee that in Phase 3 of Downtown Traffic Management System (DTMS) project, the original scope was to develop a downtown parking management system to provide parking information to the public. Due to the lack of support from the privately owned parking facilities, the project has become infeasible. City of Phoenix requests to change the scope of work to upgrade the DTMS software with new video drivers, upgrade video wall and projector system. The new video switch will convert the analog video into digital stream and facilitate video over Ethernet for Phoenix Downtown Traffic Management. The aging video wall will no longer have maintenance support from the vendor after 2009. The replacement of the parts is no longer available. Therefore, City of Phoenix will need to replace the video wall at TMC to maintain the traffic management capability. The current DTMS software does not provide the flexibility to change the types of the messages on DMS, which is not suitable for the ever changing downtown events. As a result, the upgrade of the DTMS software is also included in the new scope of the project. Jerry Horacek asked the reasons why the private parking lots are reluctant to participate. Marshall mentioned the lack of interest to broadcast the availability of the park spaces; concerns on the information obtained by the City and the possibility of people choose public parking facilities over private facilities. Faisal Saleem moved, Gus Woodman seconded and it was

unanimously carried to approve the requests from City of Phoenix to change the scope of the phase 3 of Downtown Traffic Management System project.

8. Observation of the ITS World Congress

Faisal Saleem from MCDOT briefed the committee on the activities occurred on the ITS World Congress in New York. Proactive traffic management, Vehicle Infrastructure Integration, variable speed limit based on traffic condition, queue length provided to traveler, improving safety are some of the interesting topics. MCDOT's presentation on E-VII also received well response. Probe data becomes a promising source to provide reliable traffic data. Faisal also mentioned that there may be a new trend within FHWA to provide funding based on performance, which will require reliable data from ITS to obtain performance measure. He also mentioned that GPS seems to play a more and more important role to provide traveler information. A trend to transform from the data pulling to data push is also observed. A VII demonstration on a bus showed the traveler information such as signal timing, flight information and etc. Another VII demonstration showed the vehicle's capability to detect and react to pedestrian even the driver can't see the pedestrian. Other demonstration includes TMC of the future, LCD monitor video wall and etc. Sarath Joshua asked what Safe Trip 21 is. Lisa Burgess mentioned The Safe Trip 21 is a USDOT program aim at utilizing the VII technology to improve transportation safety. Strong partnership with NOKIA and NazTech resulted in a test site in California. It will focus on pushing valuable traveler information through cell phone network to the traveling public. The project area is mainly focus on the Bay Area.

9. Status Reports by Committee Members on ITS Activities

Bob Ciotti from Phoenix Public Transit briefed the committee that the light rail is open. The new transit system recorded very high volume of usage during the opening weekend. He was not sure how well the predictive priority system is working. Brian Moberly from Surprise mentioned the Surprise TMC is under construction. Marshall Riegel from Phoenix reported that the predictive priority is functioning well. Ron Amaya from Peoria mentioned that the TMC scope of work is under development. The project will be out for bid in the Spring.

10. Next Meeting Date

Next meeting date was announced at 10:00 a.m. on Wednesday, February 4, 2009.

11. Adjournment

Chairman Mike Mah adjourned the meeting at 11:30 PM.