

## INTELLIGENT TRANSPORTATION APPLICATION

### General Instructions:

This Excel form is to be used to request federal Congestion Mitigation and Air Quality (CMAQ) funding available through the Maricopa Association of Governments (MAG) for Bicycle Projects to be included in the FY2014-FY 2018 MAG Transportation Improvement Program. Funding is available for Federal Fiscal Year (FFY) 2015, 2016 and 2017.

This application form includes:

- Part A - Contact and Project Description,
- PART B - ITS TIP Listing and CMAQ Score Data,
- PART C - ITS project Description,
- Part D - Checklist and Signature Page, and Transmittal Instructions and Schedule.

Each part is a separate tab of this excel file. Please complete Parts A - D. Alternative application forms are available upon request.

### Deadlines and Transmittal Instructions:

Two copies of a printed, complete and signed application must be received in the MAG offices by **10:00 a.m. Wednesday, September 19, 2012**. The application is to be submitted electronically and should include ArcGIS shape files depicting the project location if they are available.

**Detailed transmittal instructions are located in a separate tab** in this excel sheet. Late applications **will not be accepted**.

If member agencies need additional information or have questions, they should contact Teri Kennedy or Stephen Tate at (602) 254-6300 or contact them by e-mail at the following addresses:

<mailto:state@azmag.gov>

<mailto:tkennedy@azmag.gov>

<mailto:LLuo@azmag.gov>

**All information is required, unless noted by the word - Optional.**

### PART A - CONTACT AND PROJECT DESCRIPTION

Contact Information	
1. Sponsoring Agency	City of Goodyear
2. Contact Name	Hugh Bigalk
3. Phone	623-882-7514
4. E-Mail Address	hugh.bigalk@goodyearaz.gov
5. Mailing Address	195 North 145th Avenue, Building D, Goodyear, Arizona 85338

(OPTIONAL)

If the applicant will be providing a GIS coverage (shapefile or geodatabase), please see the tab labeled "GIS Transmittal Instructions)

[GIS Submittal Instructions](#)

ITS Application from City of Goodyear for 'SR303L - McDowell Road to Camelback Road Connectivity'

**PART B-ITS TIP Listing and CMAQ Score Data**

This part of the form identifies data to calculate an CMAQ Score and provide the minimum data needed for a listing of the project in the Transportation Improvement Program

**Federal Funding Eligibility**

All ITS projects to be funded with Federal CMAQ funds must be in the 8-Hour Ozone Nonattainment Area. Please use the following link to verify that the map is located in the nonattainment area:

[Link to an 8-Hr Ozone Nonattainment Map on the MAG Website](#)

**1. Traffic Estimate and Roadway Characteristics**

a. Current Average Daily Traffic (ADT) on the Facility or the Nearest Parallel Facility of a Similar Type:

b. Please Describe how the ADT was estimated:

c. When was the ADT estimate developed:

d. Name of the Roadway Section Used for the ADT Estimate:

e. Starting Limit of the Roadway Section:

f. Ending Limit of the Roadway Section:

g. Length (Miles)

h. Total Number of Through Lanes on the Roadway Section:

i. Federal Functional Classification of the Roadway Section:   
[Link to Functional Classification Map on the MAG Website](#)

**2. Traffic Coordination Improvements. If the project improves traffic signal coordination, please do the following:**

a. Enter the pre-improvement (current) traffic speed of the traffic corridor:

b. In the Table Check the Box in The Row That Best Describes the Project (Check Only One Box):

	Before (Pre-Improvement) Condition	After (Post Improvement) Condition	Expected Increase In Speed
	Interconnected, pre-timed signals with old timing plan	Advanced computer-based control	17.5 percent
X	Non-interconnected signals with traffic-actuated controllers	Advanced computer-based control	16.0 percent
	interconnected, pre-timed signals with actively managed timing	Advanced computer-based control	8.0 percent
	Interconnected, pre-timed signals with various forms of master control and various qualities of timing plans	Optimization of signal timing plans. No change in hardware	12.0 percent
	Non-interconnected, pre-timed signals with old timing plan	Optimization of Signal Timing Plans	7.5 percent

**3. Other Improvements. Check all that apply:**

- Includes Traffic Signal Improvements for a Single Agency
- Includes Traffic Signal Improvements that Apply to More than One Agency
- Includes FMS Improvements
- The Project Conforms to Local Land Use Plans
- Adds Traffic Signals that increase pedestrian crossing time for seniors

**4. Traffic Speed Impacts of the Project (Not required for Traffic Coordination Improvements)**

a. Enter the pre-improvement (current) traffic speed of the traffic corridor:

b. Enter the post-improvement (current) traffic speed of the traffic corridor:

### PART C -ITS project Description

Please enter project data ONLY in highlighted cells, save the file with the lead agency name in it - ie. City 0 ITS Projects.xls  
 Submit this Excel workbook to MAG via email to: lluo@azmag.gov  
 Please use one worksheet per project, with the tab at the bottom indicating agency priority -- Mesa1, Mesa2,.. etc.  
 Links to various websites are provided for additional information and help  
 The worksheet titled "Example" shows an example on how to enter Data in the highlighted areas

Please enter required information in highlighted cells

#### A. Project Title & Sponsor

Lead Agency	City of Goodyear
Other Partnering Agencies	
ITS Project Title:	SR303L - McDowell Road to Camelback Road Connectivity
Project Category:	Integrated Corridor Mgmt

#### B. Project Goals & Objectives

**Project Goals:**  
 Implement the ability to efficiently manage traffic under normal, congested and incident conditions between ADOT and City of Goodyear.

**Objectives:**  
 Expand Traffic Management Center (TMC) traffic surveillance and monitoring capability by connecting to existing CCTV cameras at Indian School Road and Camelback Road traffic signals at SR 303L; Facilitate the adjustment of traffic signal timing adjustments at these locations in response to real-time traffic conditions.

#### C. Project Information

**Project Location:**  
 SR 303L - From the McDowell Road TI to the Camelback Road TI

**Scope of the project:**  
 Purchase and install approximately 16,000 LF of 96 strand SMFO cable, 13,000 LF of 1" innerduct to be pulled into existing ADOT FMS conduit, 2 fiber optic splice enclosures, 2 field hardened Ethernet switches and two dual channel video codecs. An IGA will be established to utilize the existing ADOT FMS conduit. This project will connect the City of Goodyear TMC to the new traffic signals at the SR 303L TI's with Indian School Road & Camelback Road. These traffic signals will be owned and maintained by the City of Goodyear. The City of Goodyear will establish connectivity to the SR 303L & McDowell Road TI with MAG TIP project #CM-GDY-0(205)A in FFY2014.

#### D. Identify Components in MAG Regional ITS Architecture

ITS applications	Relevant Applications (ENTER: Yes or No)	Applicable ITS Market Packages <a href="http://www.azmag.gov/ITS/">http://www.azmag.gov/ITS/</a>	Note: Please attach the Architecture Flow Diagram in the application
1. Traffic Management	Yes	ATMS01,ATMS03	
2. Transit Operations Support	No		
3. Communications	Yes	ATMS07	
4. Traveler Information	No		
5. Archived Data Management	No		
6. ITS for Safety	No		
7. ITS Plans	No		
8. Freeway-Arterial Operations	Yes	ATMS08	

**E. Program Year Preference**

First Choice       FY2015       FY2016       FY2017  
 Second Choice       FY2015       FY2016       FY2017  
 Third Choice       FY2015       FY2016       FY2017

**F. Project Budget**

	Federal Cost	Local Match (min 5.7%)	Total Cost
Amount	\$219,876.00	\$13,291.00	\$233,167.00
Cost percentage	94.3%	5.7%	

**G. Project Schedule**

The table below is provided as a tool to assist local agencies develop a project planning schedule. Column A shows standard project milestones and Column B shows the schedule based on a typical project procurement process. To generate a custom Project Schedule:(1) select applicable milestones in Column C;(2) Enter estimated time to complete milestone measured in months from project development start date in Column D; NOTE: The project obligation date generated in cell E111 MUST occur before Sept 15th of the programmed fiscal year. Determine the appropriate Project Activity Start Date (by trial-and-error) in order to obligate the project on time.

Standard Project Milestones	Default Schedule for Process	Applicable Milestones (ENTER - Yes OR No)	Estimated Time to Milestone (ENTER #Months)	Estimated Date
Apply for ADOT project number				Nov-2013
Receipt of ADOT project number	Jan-2014	Yes	2	Jan-2014
Initial DCR	Feb-2014	Yes	3	Feb-2014
Final DCR	Mar-2014	Yes	4	Mar-2014
30% Preliminary Plans, Cost Estimate and Report	May-2014	Yes	7	Jun-2014
60% Preliminary Plans, Cost Estimate and Report	Jul-2014	Yes	9	Aug-2014
Final Preliminary Plans, Cost Estimate and Report	Sep-2014	Yes	11	Oct-2014
Environmental Clearance	Jul-2014	Yes	6	May-2014
Utility Clearance	Aug-2014	Yes	11	Oct-2014
Right-of-Way Clearance	May-2014	Yes	11	Oct-2014
Approval of IGA	Nov-2014	Yes	12	Nov-2014
Obligation authority of Federal funds	Dec-2014	Yes	13	Dec-2014
Advertised Date	Feb-2015	Yes	2	Feb-2015
Final Deployment	Aug-2015	Yes	4	Jun-2015

< ENTER mm/yyyy -- Project Activity S

**H. System Maintenance and Operations**

Current staff resources available for ITS operations at the local	2
Additional staff resources required for fully utilizing features added by	0
Estimated current annual ITS operations & maintenance budget	\$125,000
Estimated additional annual operations & maintenance funds required	\$5,000
Estimated DATE from when required additional O&M funds will be	Jul-2014

Other comments:

**I. Systems Engineering Analysis Requirement**

Commitment to address the federal requirement for Systems Engineering Analysis:  
 Agency's intent to follow the process described in the 'V' diagram during the project development process

<http://www.azdot.gov/Highways/TTG/PDF/SystemsEngineeringChecklist.pdf>

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**PART D - SIGNATURE AND CHECKLIST**

As the jurisdiction's manager/administrator or designated representative, I certify that this application is accurate and complete and that the project will be included in the sponsoring MAG member agency's local CIP/TIP if the project is selected for federal funding.

Signature: *Brian Dalke*

Name: *BRIAN DALKE*

Title: *Interim City Manager*

Date: *September 14, 2012*

**WILL FILL OUT AFTER QUESTIONS APPROVED.**

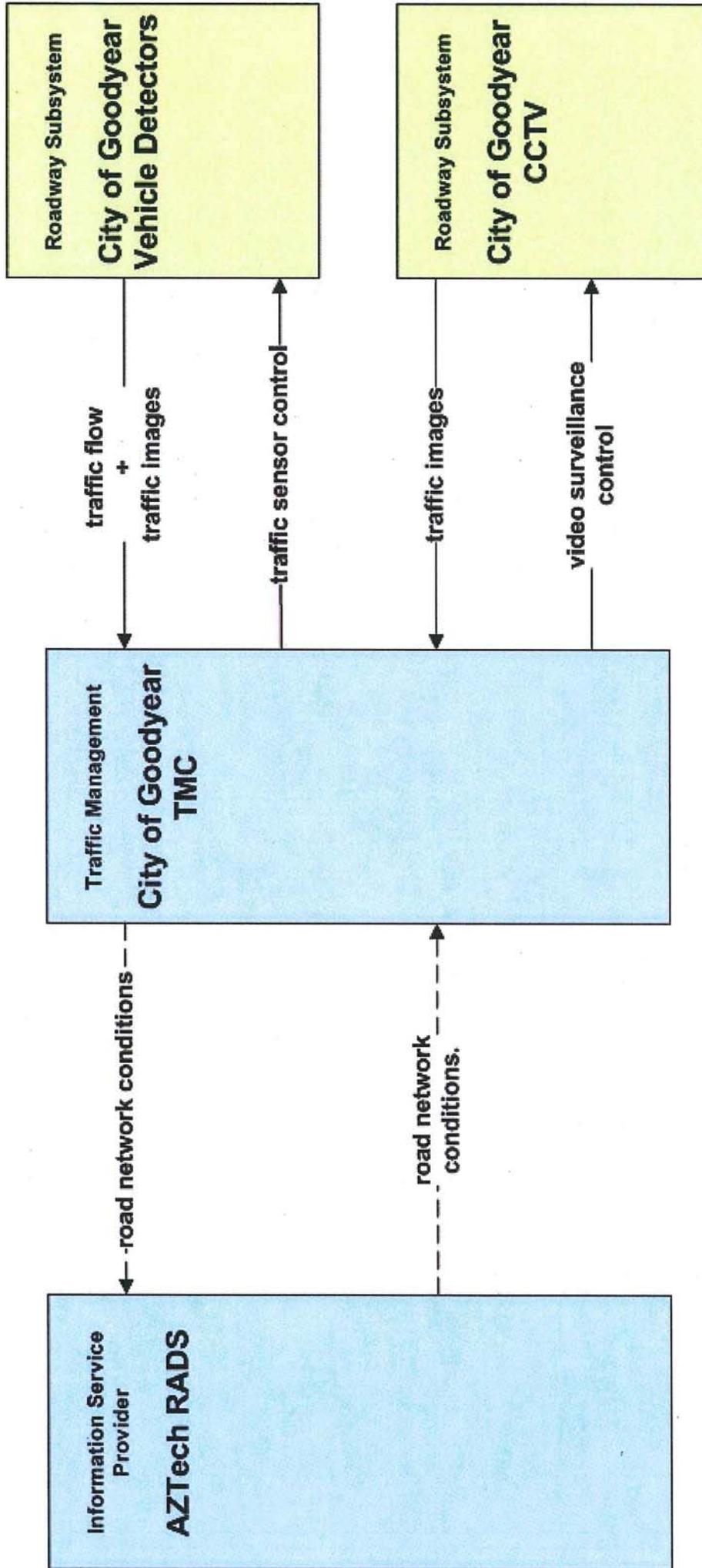
**Checklist - OPTIONAL**

This check list is optional, but is included to facilitate applicant review and verification that all required fields in the form have been completed.

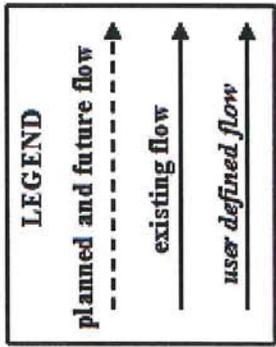
<b>PART A - Contacts and Project Description Fields</b>	<b>Complete?</b>
Contact Information, fields 1 – 5 are complete	Yes
<b>PART B - TIP Listing and CMAQ Score Data</b>	<b>Complete?</b>
1. Traffic Estimate and Roadway Characteristics - Fields a - I are complete	
2. Traffic Coordination Improvements - as applicable table is complete	Yes
3. Other Improvements - As applicable all fields are completed	Yes
<b>PART C - Total Project Schedule and Budget Including All Segment Fields</b>	<b>Complete?</b>
Section A is Complete	Yes
Section B is Complete	Yes
Section C is Complete	Yes
Section D is Complete	Yes
Section E is Complete	Yes
Section F is Complete	Yes
Section G is Complete	Yes
Section H is Complete	Yes
Section I is Complete	Yes
<b>PART D - Signature Page Fields</b>	<b>Complete?</b>
Form is signed	
Name, title and date fields are completed.	

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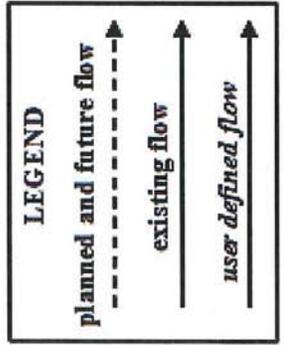
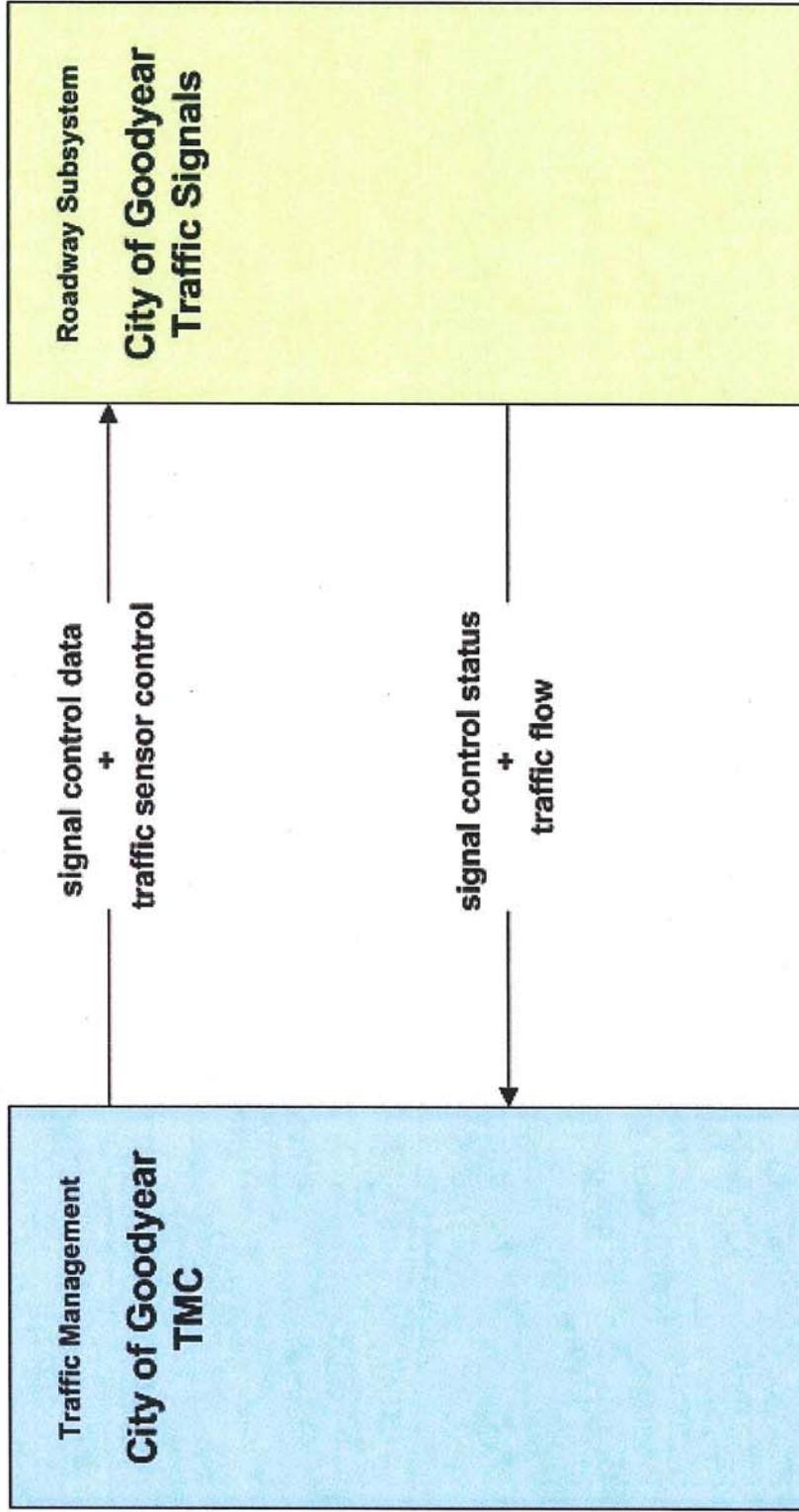
# ATMS01 - Network Surveillance City of Goodyear



*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*



# ATMS03 - Surface Street Control City of Goodyear



# ATMS07 - Regional Traffic Management Phoenix Metropolitan C2C CCTV Network

**Traffic Management**

**ADOT TOC**  
+  
**City of Chandler TMC**  
+  
**City of Glendale TMC**  
+  
**City of Mesa TMC**  
+  
**City of Peoria TMC**  
+  
**City of Phoenix TMC**  
+  
**City of Surprise TMC**  
+  
**MCDOT TMC**  
+  
**Town of Gilbert TMC**

*This information is shared through the RCN Network. Existing communications represent agencies connected as part of RCN Phase 1A. Other agencies are shown as future connecting.*

**Other Traffic Management**  
**Phoenix Metropolitan C2C CCTV Network**

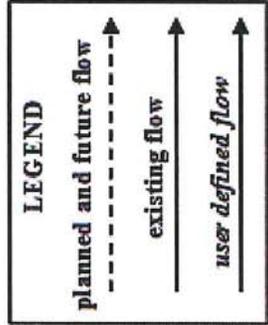
**Traffic Management**

**City of Avondale TMC**  
+  
**City of Goodyear TMC**  
+  
**City of Scottsdale TMC**  
+  
**City of Tempe TMC**  
+  
**Local City and Municipal TMC**  
+  
**Town of Queen Creek TMC**

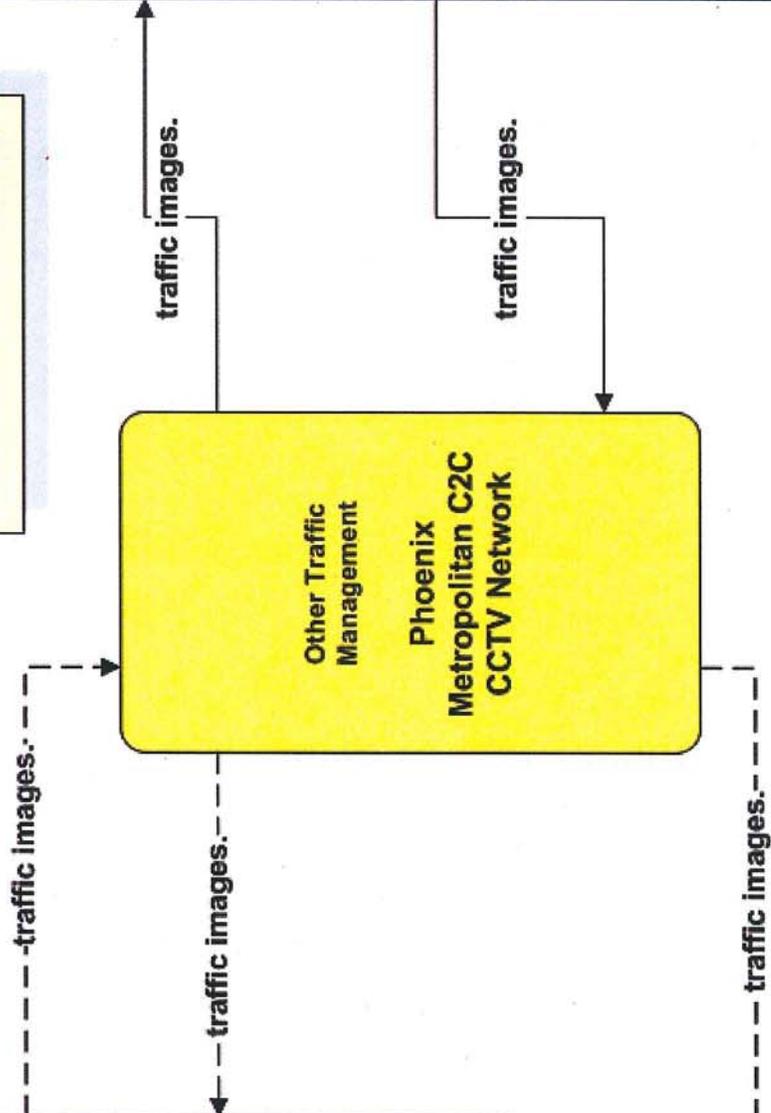
**Emergency Management**

**Arizona DPS**  
+  
**MCSO Dispatch Center**  
+  
**Phoenix Fire Department Regional Dispatch Center**

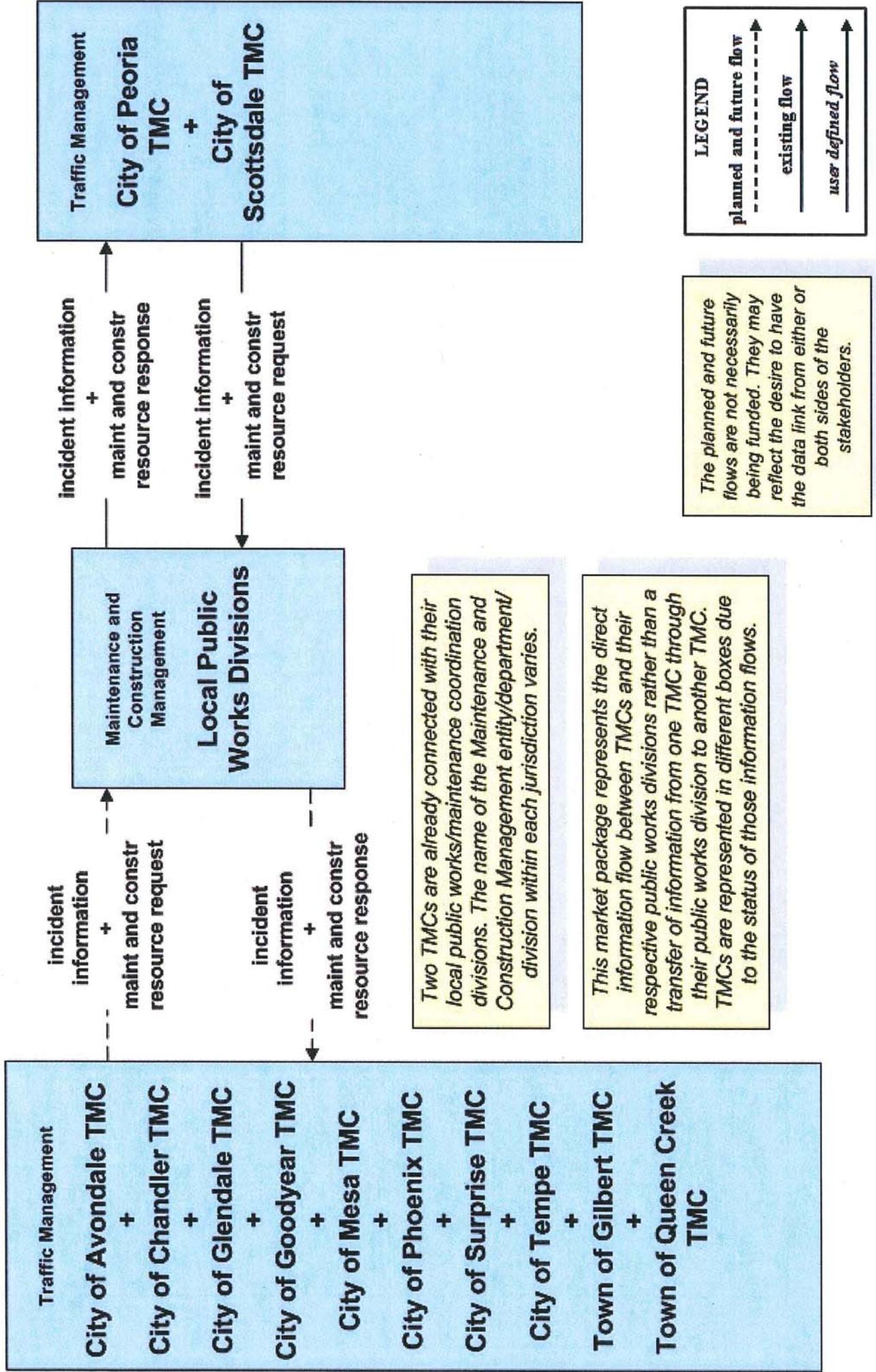
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*



*This information is shared through an Internet connection. DPS currently receives traffic images and has video surveillance control of ADOT CCTV cameras.*



# ATMS08 - Incident Management Local Cities and Municipalities (TM to MCM)



**MAG CMAQ Project**

**Intelligent Transportation Systems Project**

Item Description	Unit	Quant.	Unit Prices	Total	Eligible for CMAQ?
<b>A. SCOPING</b> (15% Preliminary Engineering Design) (Non-infrastructure projects: Only #2 applies).					
1. SITE TOPOGRAPHIC SURVEY	LS	1	\$0.00	\$0.00	No
2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN	LS	1	\$0.00	\$0.00	No
3. SYSTEMS ENGINEERING ANALYSIS (must address FHWA requirements)	LS	1	\$0.00	\$0.00	No
4. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)	LS	1	\$0.00	\$0.00	No
5. HAZMAT ASSESSMENT	LS	1	\$0.00	\$0.00	No
<b>SUBTOTAL – PROJECT SCOPING COSTS</b>				\$0.00	\$0

**B. FINAL PRELIMINARY ENGINEERING DESIGN - Stages II, III, IV and PS&E**  
(Not applicable to non-infrastructure projects)

Item Description	Unit	Quant.	Unit Prices	Total	Eligible for CMAQ?
1. Right-of-Way Acquisition	LS	1	\$0.00	\$0.00	No
2. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1	\$0.00	\$0.00	No
3. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1	\$0.00	\$0.00	No
4. DRAINAGE REPORT	LS	1	\$0.00	\$0.00	No
5. Storm Water Pollution Prevention Plan (SWPPP)	LS	1	\$0.00	\$0.00	No
<b>SUBTOTAL – PROJECT DESIGN COSTS</b>				\$0.00	\$0





Item Description	Unit	Quant.	Unit Prices	Total	Eligible for CMAQ?
<b>D. ADOT Fee for PE Reviews and Staff Charges</b>	LS	1	\$15,000	\$15,000	No
<b>TOTAL ADOT Fee COST</b>				\$15,000	\$0
<b>E. TOTAL PROJECT COST</b> (All <u>subtotals</u> + ADOT local projects review fee)				\$248,167	\$233,167

**F. SUMMARY OF FEDERAL AND NON-FEDERAL FUNDS**

TOTAL COST FOR PROJECT CONSTRUCTION/IMPLEMENTATION	\$248,167
TOTAL COST FOR PROJECT ELIGIBLE FOR FEDERAL REIMBURSEMENT	\$233,167
TOTAL FEDERAL FUNDS @ 94.3% (.943 x Total Eligible Cost shown highlighted above)	\$219,876
LOCAL AGENCY MATCHING FUNDS (.057 x Total Cost shown highlighted above)	\$13,291
LOCAL AGENCY FUNDS <u>NOT</u> ELIGIBLE FOR FEDERAL REIMBURSEMENT	\$15,000