

Overview of the ITS Project Application & Review Process

August 19, 2015



Essential Requirements

- Compliance with Regional ITS Architecture
- Identified as a regional priority in the 2012 MAG ITS Strategic Plan
- Located within the CMAQ eligible area

Project Application Form

- Part A – Contact Information
- Part B – CMAQ Score Data
- **PART C1 – ITS Project Information**
- Part C2 – ITS Architecture Flow Diagrams
- Part D – Detailed Cost Estimate
- Part E – Signature & Checklist

Part C1 - ITS Project Information

- A. Project Title & Sponsor
- B. Project Goals & Objectives
- C. Project Information
- D. Identify Project Components in MAG
Regional ITS Architecture
- E. Program Year Preference (FY2018 or
FY2019)
- F. Project Budget
- G. System Maintenance and Operations
- H. Systems Engineering Analysis Requirement

A. Project Title & Sponsor

- Lead Agency
- Other Partnering Agencies
- Project Title
- Project Category
 - 4 Project Categories from MAG ITS Strategic Plan: Arterial ITS, ITS for Safety, Integrated Corridor Management, Local ITS Plans

7	<u>A. Project Title & Sponsor</u>				
8					
9	Lead Agency	City A			
10	Other Partnering Agencies	City B, City C & City D			
11	Project Title	Infrastructure for seamless traffic coordination across city borders			
12	Project Category	Arterial ITS			

B. Project Goals & Objectives

- Project Goals
- Project Objectives

14	<u>B. Project Goals & Objectives</u>				
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16	<u>Project Goals:</u>				
17	Implement required infrastructure to provide the ability to efficiently manage traffic under normal,				
18	congested and incident conditions across city boundaries.				
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24	<u>Project Objectives:</u>				
25	Expand TMC traffic surveillance and monitoring capability by installing CCTV cameras with peer-				
26	to-peer control; Facilitate the coordination of signal timing adjustments between neighboring				
27	cities in response to real-time traffic conditions.				
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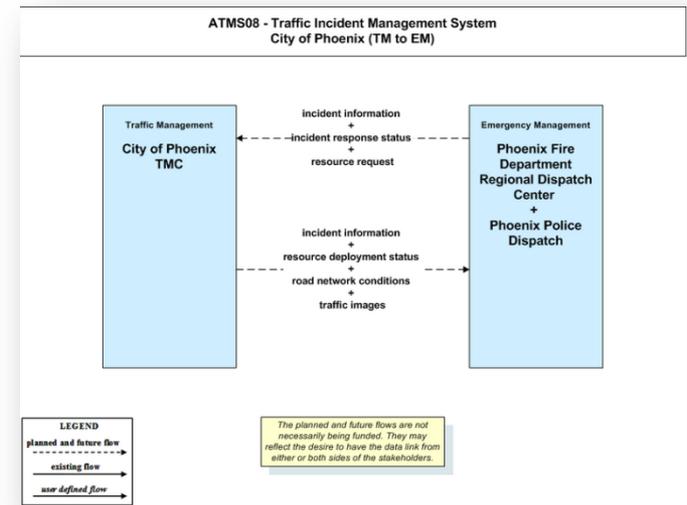
C. Project Information

- Project Location Description
 - PDF of a map must be submitted to MAG as an attachment
 - GIS maps/shape files for project coverage
- Project Scope of Work

34	<u>C. Project Information</u>				
35					
36	<u>Project Location Description:</u>				
37	Specific project location must be described here in brief, and a PDF file of a map must be				
38	submitted to MAG as an attachment.				
39					
40					
41					
42					
43					
44	<u>Scope of the project:</u>				
45	Purchase and Install a total of X CCTV cameras along YY road from cross street1 to cross street				
46	2 along with central control module/software at the TMC. The software would allow selected				
47	departments within the city and other adjacent agencies to control the cameras for traffic				
48	management purposes. Two dedicated servers will be procured to support the application.				
49	Communications links and IGAs have been established between our city and City B, C, D to				
50	facilitate the shared camera control. Communications between the intersections and the TMC is				
51	under construction through another TIP project #.				
52					

D. Identify Project Components in MAG Regional ITS Architecture

- Compliance with ITS Architecture/ITS Strategic Plan
- Service Areas addressed in the project
 - ITS Service Areas:
 - Traffic Management, Public Transportation, Communications, Traveler Information, Archived Data Management, ITS for Safety, ITS Planning, Freeway-Arterial Operations
- Applicable ITS Service Packages
 - <http://www.azmag.gov/ITS/>
- Include the relevant Architecture Flow Diagrams



D. Identify Project Components in MAG Regional ITS Architecture

54	<u>D. Identify Project Components in MAG Regional ITS Architecture</u>				
55					
56					
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58	ITS Applications	Addressed in this Project (Yes or No)	Applicable ITS Market Packages http://www.azmag.gov/ITS/		
59	1. Traffic Management	Yes	ATMS01, ATMS03	NOTE: Insert the relevant Architecture Flow Diagrams in worksheet: Part C-ITSArchFlowDiags	
60	2. Transit Operations	No			
61	3. Communications	No			
62	4. Traveler Information	No			
63	5. Archived Data Mgmt	No			
64	6. ITS for Safety	No			
65	7. ITS Plans	No			
66	8. Fwy-Arterial	Yes	ATMS08		
67					

E. Program Year Preference

- Preferred Program Year
 - FY2018
 - FY2019
- Federal Funds Available: \$3.68M for each FY

70	<u>E. Program Year Preference (enter FY2018 oor FY2019)</u>		
71			
72	Preferred program FY	FY2018	

F. Project Budget

- Estimated Budget
- Amount
 - Federal Cost
 - Local Match
 - Total Cost
- Cost Percentage
 - Local Match must be a minimum of 5.7%

75	<u>F. Project Budget</u>			
76				
77				
78		Federal Cost	Local Match (min 5.7%)	Total Cost
79	Amount	\$200,000.00	\$50,000.00	\$250,000.00
80	Cost percentage	80.0%	20.0%	

G. System Operations & Maintenance

- Commitment for System Operations & Maintenance
- Current staff resources available to support ITS operations at the local agency (in FTEs)
- Additional staff resources required for fully utilizing features added by project (in FTEs)
- Agency's estimated current annual ITS operations & maintenance (O&M) budget
- Estimated additional annual O&M funds required for features added by this project
- Estimated date from when required additional local O&M funds will be available

G. System Operations & Maintenance

85	<u>G. System Maintenance and Operations</u>				
86					
87	Current staff resources available to support ITS operations at the local agency (in FTEs)				3
88	Additional staff resources required for fully utilizing features added by project (in FTEs)				None
89	Agency's estimated current annual ITS operations & maintenance (O&M) budget				\$100,000
90	Estimated additional annual O & M funds required for features added by this project				\$20,000
91	Estimated DATE from when required additional local O&M funds will be available				May-2018
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93	Other comments:				
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H. Systems Engineering Analysis Requirement

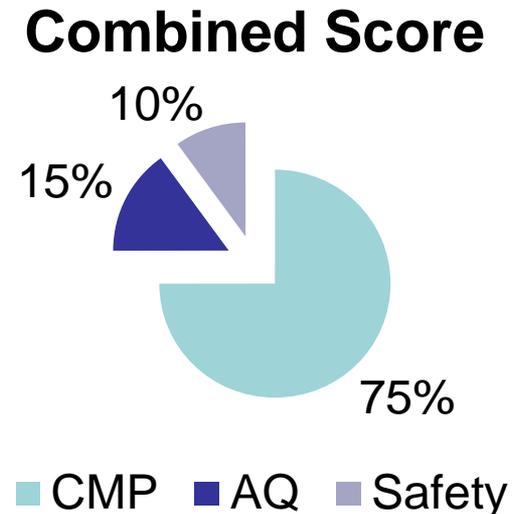
- Commitment to address the federal requirement for Systems Engineering Analysis
 - Agency's intent to follow the process described in the 'V Diagram' during the project development process
 - [http://azmag.gov/Documents/ITS 2010-11-22 ITS-Systems-Engineering-and-Architecture-Compliance-Checklist.pdf](http://azmag.gov/Documents/ITS_2010-11-22_ITS-Systems-Engineering-and-Architecture-Compliance-Checklist.pdf)
- Assurance that the Systems Engineering Analysis will be part of the DCR process

102	H. Systems Engineering Analysis Requirement				
103					
104	Commitment to address the federal requirement for Systems Engineering Analysis:				
105	Agency's intent to follow the process described in the 'V' diagram				
106	during the project development process				
107					
108	The project sponsor/lead agency City A intends to incorporate the Systems Engineering Analysis in the scope of work for the project's Design Concept Report, following guidance on the ADOT's System Engineering Checklist provided at:				
109					
110	http://azmag.gov/Documents/ITS 2010-11-22 ITS-Systems-Engineering-and-Architecture-Compliance-Checklist.pdf				

Review of ITS Applications

Project Evaluation Criteria

- **CMP Score**
 - Compares against 6 CMP objectives
- **Air Quality Score**
 - Emission reduction potential – will be provided by the Air Quality TAC
- **Safety Score**
 - Potential to improve safety
- **Weights for combining scores**
 - CMP Score = 75%
 - Air Quality Score = 15%
 - Safety Score = 10%



Project Application Process

Date	Action
Aug 19, 2015 10:00 a.m.	Workshop for Applications
Sept 21, 2015 10:00 a.m.	Project Applications submittal deadline
Sept 21, 2015 Noon	Application receipts sent
Sept 21 st thru Oct 2nd	Reviews by ITS Committee members
Oct 7, 2015 10:00 a.m.	ITS Committee Meeting – <u>project presentations</u>
Oct 22, 2015	Air Quality TAC scoring submitted
Week of Oct 26 th , 2015	Project scores are combined and adjusted rankings distributed to ITS Committee members
Nov 4, 2015 10:00 a.m.	ITS Committee Meeting – project ranking and recommendations

Addition Assistance Opportunities

Open Working Group for project application

- Monday, Aug 24th 8:30AM to 10:00AM
- Monday, Sept 14th 9:00AM to 11:00AM