

MARICOPA ASSOCIATION of GOVERNMENTS

Kimley»Horn

Expect More. Experience Better.



## Project Team

- **Maricopa Association of Governments**
  - Sarath Joshua
- **Technical Advisory Group**
- **Kimley-Horn**
  - Lisa Burgess
- **ICF**
  - Michael Grant



## Prior Plans



2001 MAG ITS Strategic Plan



2003 RCTO



2001, 2009, and 2010 MAG Regional ITS Architecture



2011 Arterial Transportation Systems Management and Operations Survey



2012 ITS Strategic Plan



## Project Overview

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Project Management and Technical Oversight

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Best Practices in Urban Transportation Systems Management & Operations

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Current & Planned ITS Infrastructure

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Long Term Vision and Concept of Systems Management and Operations

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Regional Priorities for SM&O Investments

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Initial SM&O Implementation Plan

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Data Collection, Performance Measurement and Reporting Processes

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## Task 0 - Project Management and Technical Oversight Process

### ■ Project Management Plan:

- TAG role
- Stakeholder Communications Plan
- Quality Control Plan
- Project Schedule
  - TAG and MAG Meetings/Action





## Task 1 - Best Practices in Urban Transportation Systems Management and Operations

- **Input from TSM&O Panel of Experts**
- **On-line Opinion Survey**
- **Interviews with “Exemplary Regions”**
  - Institutional Framework
  - Alternative Business Models
  - Tools that Support SM&O Practices
  - Performance Measurement and Data
  - **Best Practices Webinar September 7th**



## Task 2 - Current and Planned ITS Infrastructure and Current SM&O Practices

Current Freeway  
and Arterial  
Operational  
Functions

Current  
Connectivity and  
Control of ITS  
Infrastructure

Current ITS  
Infrastructure  
Life-Cycle  
Evaluation

Current  
Performance  
Measures

Staffing and Staff  
Development in  
Essential  
Technical Skills

Lessons Learned  
Over the Last 20  
Years





# Freeway and Arterial ITS Infrastructure Survey

## ▪ Freeway Systems/Operations

- FMS Infrastructure
- Anticipated ITS Infrastructure of South Mountain Freeway
- Funding of Costs Associated with FMS Infrastructure and Operations

## ▪ Arterial Systems/Operations

- Update Elements of 2011 Survey
- Current Coverage of Traffic Signal Systems
- Funding Sources and Costs Associated with ITS Infrastructure and Operations
- Basic Arterial Infrastructure Features and Operations Elements
- Signal Controller Technologies in Use Across the Region
- Infrastructure Available for Data Collection for System Performance Monitoring





## Task 3 - Long Term Vision and Concept of Systems Management & Operations

- **Infrastructure Improvements Identified in Current MAG Plans**
- **The Influence of Emerging Technological Advances**
  - Likely Future Scenarios
- **Potential Trends in Travel Behavior and Patterns**
  - 2030 Horizon Year





# Task 4 - Regional Priorities for SM&O

- **Recommended Methodology for Classifying and Establishing a Hierarchy for Facilities on the Freeway and Arterial Road Network**
  - Will Serve as the Basis for Future Regional SM&O Investments
- **Initial List of Prioritized Facilities for Regional SM&O Investments**





## Task 5 - Initial SM&O Implementation Plan





# Task 6 - Recommended Data Collection, Performance Measurement, and Reporting Processes

- **Best Practices**
- **Data Elements Required for Performance Measurements**
  - Existing Data Sources
  - Explore the Feasibility of Establishing Regional Data Collection Infrastructure





# Task 7 - Framework for Annual SM&O Performance Review

- **Best Practices and Potential Models for MAG**
- **Process for Establishing Key Performance Goals and Targets**
  - SM&O Strategies that Demonstrate a Clear Return on Investment
  - Automating Performance Monitoring where Feasible



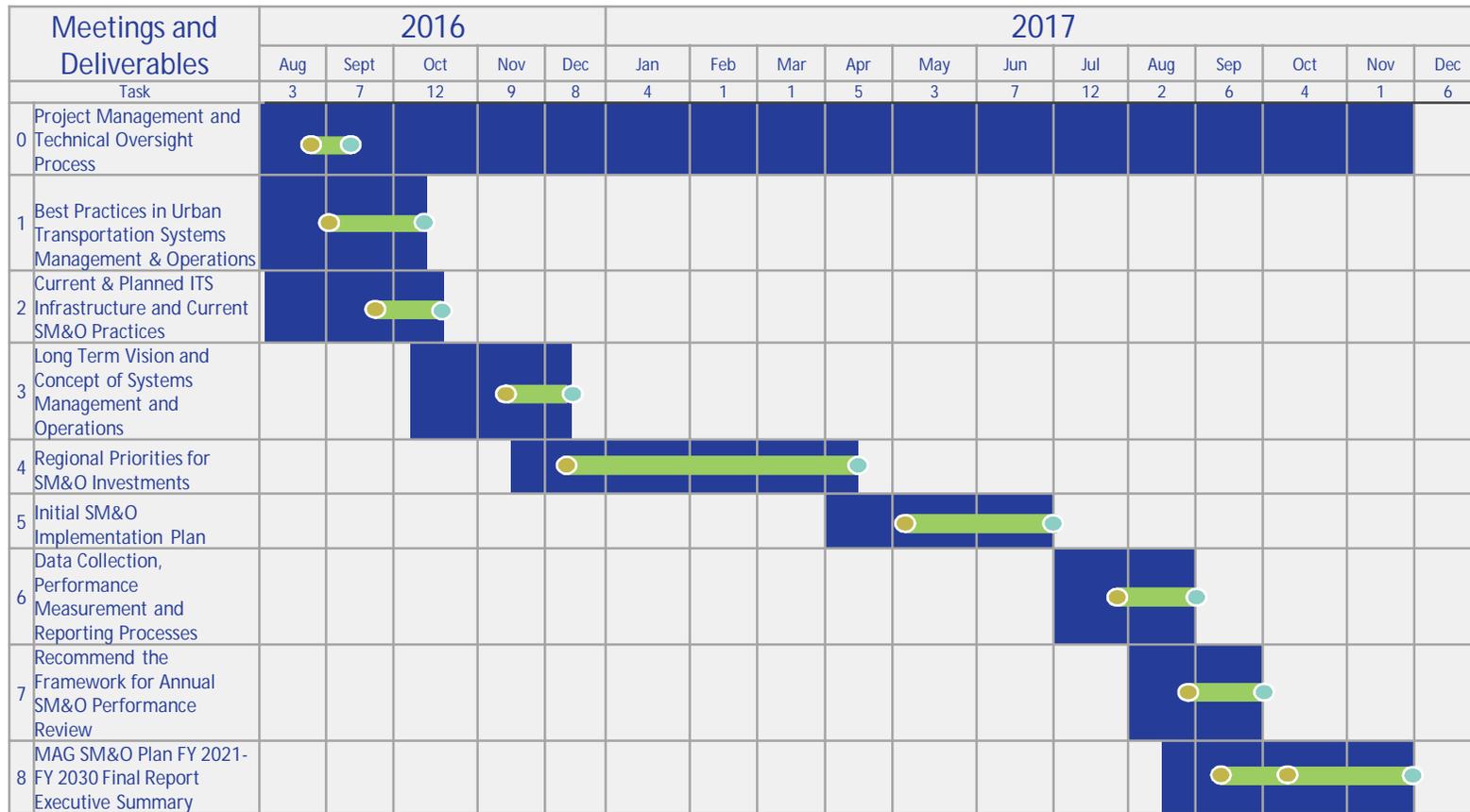


## Task 8 - MAG SM&O Plan FY2021-2030 Final Report & Executive Summary





## Project Timeline



Draft Due ● Review Period ■ Final Due ●





## 2016 Meetings

| Meeting   | Key Documents  |
|---|--|
| August 10 <sup>th</sup> - Kick Off Meeting                      | <ul style="list-style-type: none"><li>• Draft PMP</li></ul>  |
| September 7 <sup>th</sup> - Best Practices Webinar              | <ul style="list-style-type: none"><li>• Final PMP</li><li>• Draft Best Practices Review</li><li>• Draft Current SM&amp;O Practices</li></ul> |
| October 12 <sup>th</sup> - Current SM&O Practices Meeting       | <ul style="list-style-type: none"><li>• Final Best Practices Review</li><li>• Final Current SM&amp;O Practices</li></ul>                     |
| November 9 <sup>th</sup> - Long Term Vision of SM&O Meeting     | <ul style="list-style-type: none"><li>• Draft Long Term Vision for SM&amp;O</li></ul>  |
| December 14 <sup>th</sup> - Regional Priorities for Investments | <ul style="list-style-type: none"><li>• Final Long Term Vision for SM&amp;O</li><li>• Draft Regional Priority Investments</li></ul>          |





# Contact Information

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