

FISCAL YEAR 2021 MAG TRAFFIC SIGNAL OPTIMIZATION PROGRAM

PROJECT REVIEW PROCESS & AGENCY RESPONSIBILITIES

The Maricopa Association of Governments (MAG) serves as the forum for planning regional transportation improvements that involve strategic investments in advanced traffic management infrastructure and operations. The Traffic Signal Optimization Program (TSOP) program provides technical assistance to MAG member agencies that own and operate traffic signal systems to ensure that these systems are well adjusted to match prevailing traffic patterns.

TSOP projects are launched through MAG on-call consultant services contracts with a number of qualified engineering consultants. Projects provide technical assistance to MAG member agencies for improving traffic signal coordination and optimization. Projects could also assist member agencies in developing computer-based traffic signal coordination networks that are utilized by local agency staff to refine traffic signal timing. A total of \$420,933 is available in FY 2021 for TSOP projects. This call for projects will identify projects for the available funding.

The deadline for TSOP application submittals is **Friday, October 26, 2020**.

Project applications may be submitted via email to: enava@azmag.gov

If you have any questions please contact Eric Nava via email: enava@azmag.gov

The anticipated schedule for MAG approvals and launching projects is:

Receive all project applications	November 4, 2020
Review at MAG ITS Committee	December 2, 2020
MAG Approvals	December 2020/January 2021
Task order development	January/February 2021
Project kickoff meetings	February 2021
Project completion deadline	June 30, 2021

Information on Project Review Process, Agency Responsibilities etc.

MAG ITS Committee members and MAG staff will review TSOP project applications. All TSOP projects proposed must lead to improvements to traffic signal operations.

Application guidelines and project requirements:

A. Single/Multi-jurisdictional Traffic Signal Retiming Projects: Requests for single or multi-jurisdictional projects are being accepted up to a maximum estimated cost of \$80,000 per project. Agencies can request for any number of multi-jurisdictional projects. The scopes of the Single/Multi-jurisdictional projects could include:

- Signal Timing Refinement Project: CONSULTANT1 will gather traffic data, develop and recommend new signal timing plans. LOCAL AGENCY will implement signal timing. If recommended by the ITS Committee, the project will be subjected to a before-and-after evaluation by CONSULTANT2 (using the MAG methodology). The evaluation report will be provided to the LOCAL AGENCY and MAG.

B. Single/Multi-jurisdictional Traffic Data Collection Projects: Requests for single or multi-jurisdictional projects are being accepted up to a maximum estimated cost of \$80,000 per project. Agencies can request for any number of multi-jurisdictional projects. The scopes of the Single/Multi-jurisdictional projects could include:

- Collect Traffic Data Required for Signal Timing Refinement: CONSULTANT will gather traffic data and provide them to the LOCAL AGENCY. LOCAL AGENCY staff uses the data to determine new signal timing. New signal timing is implemented in field devices within 4 months of delivery of data. LOCAL AGENCY will work with selected Project consultant to perform a before-and-after study (using the MAG methodology) and deliver the study report to MAG before the end of the MAG fiscal year and present study findings to the ITS Committee during TSOP program updates.
- Collect Traffic Data Required for Signal Timing Refinement: CONSULTANT1 will gather traffic data and provide them to the LOCAL AGENCY. LOCAL AGENCY staff uses the data to determine new signal timing, and implement new timing in the field within 4 months of delivery of data. The LOCAL AGENCY will be responsible for performing a before-and-after study (using the MAG methodology) and deliver the study report to MAG.

Regional ITS Priorities Established in the 2019 Systems Management & Operations Plan:

- ICM Projects with regional significance
- Regional Priority Arterials
- Multi-jurisdictional coordination

Local Agency Responsibilities:

Agencies that receive TSOP assistance will be expected to undertake the following:

- Appoint a project manager to be the single point of contact for the agency.
- Provide the necessary background information to the CONSULTANT assigned by MAG to the project, including:
 - Scaled aerial photos or maps of the local agency to create the background SYNCHRO network.
 - A map identifying project boundaries and ALL signalized intersections that are included in the project.
 - Existing signal phasing, clearance intervals, lane geometry, speed limits and other timing parameters.
- Establish communication with all relevant agency departments of project activities to ensure there are no planned construction, special events, etc. that may hinder the traffic data collection, implementation, and performance measurement of the project.
- Implement the new signal timing, recommended by the CONSULTANT and approved by LOCAL AGENCY staff using project data, in signal controllers within 4 months to allow for timely before-and after evaluation.
- Upon completion of implementation, provide a brief report to the MAG ITS Committee.
- If a before-and-after study was performed by the agency, provide the report to MAG.