

PAVEMENT AND ASSET MANAGEMENT



Harris & Associates



WE ARE HARRIS

Harris & Associates specializes in serving the professional service needs of public agencies. Our mission is to provide you value through leadership and innovative solutions. We share your passion to serve our communities through sustainable planning, fiscal responsibility, and effective resource management.

Pavement updates are required in order to open the door to funding opportunities, which are vital in this era of deteriorating road systems, tightened budgets, and increased construction costs. Harris provides the necessary information to help clients better manage and maintain their streets.

If funding gaps exist, we provide the necessary information to advocate for increased funds for pavement maintenance. From assigning streets within the network to certain neighborhoods and zones, to recommending more cost-effective and sustainable treatments in your decision tree, Harris helps customize the PMP program to meet your requirements.

Our Pavement and Asset Management services include:

- Software and system selection
- Condition survey and analysis
- GPS and data collection
- Capital improvement planning
- GIS integration

The Harris Approach

Harris provides consulting engineering services for maintaining and updating existing Pavement Management Systems to reflect the current conditions of arterials, urban minor arterials and collector streets.

Throughout your project, Harris maintains communication and closely monitors the work, especially during the field work phase. We monitor performance against the project schedule to make certain that the pavement condition surveys are completed within the required time frames.

From our experience, we understand that inclement weather has the potential to cause delays. For this reason, we plan accordingly--developing our pavement survey schedules months in advance, and confirm that each of our projects have sufficient staff on a daily basis. Harris has a proven track record for completing projects with an accelerated deadline.

CASE STUDY: CITY OF CHICO PAVEMENT MANAGEMENT SYSTEM UPDATE

The Harris team migrated the City of Chico's pavement management data from their existing Cartegraph system, field surveyed over 100 new miles of pavement sections, and created a brand new online StreetSaver® database for the City. Harris conducted a pavement condition survey of 282 centerline miles and calculated condition assessments to provide quantitative evidence of how the City can invest its dollars and improve its PCI. The Harris team also built a GIS platform in the City's StreetSaver® instance to add new, one-click map layer functionality and improve the systems efficacy. Ultimately, five budget scenarios were generated, and the results were provided to the City, and a report containing all findings were provided to the City. Senior Project Manager, Vijay Pulijal and his team provided both field inspection training as well as StreetSaver® program training to ensure City staff felt confident in using their new systems.



PMP UPDATE PROCESS

Harris schedules a kickoff meeting to cover administrative items, define project goals and audit the existing program for any gaps.

Before pavement surveys begin, we create a list of streets to be surveyed for the field crew from the StreetSaver® online database. Harris inspectors regularly update the distress data into the StreetSaver® program during field surveys.

Pavement management systems use a “decision tree” to define treatment strategy for each pavement section based on its functional class, surface type, and condition rating. Harris analyzes decision tree options and treatment costs for future analyses and updates the database to reflect any changes. We also incorporate a comprehensive QA/QC program at various stages of our work.

After meeting to define interest rate and inflation assumptions used to project future costs, Harris generates a budget needs analysis that calculates the financial and work program effort needed to bring the pavement network to an optimum preventive maintenance cycle. We calculate scenarios to evaluate the impact of current and desired funding levels of overall pavement condition and deferred maintenance costs over time.

After meeting to discuss any comments on the draft report, we submit a final report incorporating your comments.



A consultant who knows StreetSaver®

Harris & Associates is an MTC Certified StreetSaver® user. We have over 200 projects using StreetSaver® software and served as an MTC beta tester during the development of their StreetSaver® Version 9.0 software.

Harris has set up and serviced pavement management systems since the mid-1980s when we developed our own PMP software known as PMi. When MTC's PMP software became well-established in the 1990s, we decided to focus on supporting MTC's PMP clients. We have also expanded our capabilities through utilization of other major pavement and infrastructure asset management systems.

Harris has completed more than 300 PMP projects, including 224 MTC projects in recent years. MTC has certified Harris as a Pavement Technical Assistance Program (P-TAP) consultant during every round of their program, including eight assignments in Round 17.

Let's talk about getting results

You expect more than an “on time and under budget” promise. Municipal clients have to address the concerns of constituents, neighbors and users, be sensitive to the environment, and conform to local political realities. By focusing on our clients’ needs and vision as our top priority, we have earned an excellent reputation. Our depth and breadth of skills can assist you in charting the course of your projects, from concept to reality.

Contact our team of experts and find out how partnering with Harris can provide value to your agency.



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