



CITY OF CLEARLAKE

City Council

STAFF REPORT

SUBJECT: Presentation of Vialytics Artificial Intelligence Roadway Management Software	MEETING DATE: September 3, 2026
SUBMITTED BY: Trystan Hayes, Construction Project Manager	
PURPOSE OF REPORT: ☒ Information only ☐ Discussion ☐ Action Item	

WHAT IS BEING ASKED OF THE CITY COUNCIL/BOARD:

The City Council is being asked receive presentation for informational purposes.

BACKGROUND/DISCUSSION:

The Public Works Department is continually evaluating tools that can improve the City's ability to inspect, document, maintain, and prioritize improvements to its roadway network. Vialytics is an artificial intelligence (AI)-powered roadway management platform designed for municipalities. The system uses a smartphone mounted in a municipal vehicle to capture roadway imagery while staff drive normal routes. AI analyzes the imagery to identify pavement distress and roadway assets, while GPS and time information creates a digital record of roadway conditions. The resulting information is organized in a web-based platform that can be used to review roadway conditions, identify maintenance needs, prioritize repairs, document completed work, and support long-term pavement management and capital improvement planning.

The City of Clearlake conducts roadway maintenance and improvement activities through the Public Works Department. Existing roadway management relies on field observations, maintenance records, photographs, resident reports, project information, and staff knowledge of roadway conditions. Vialytics' current platform captures roadway imagery through a smartphone mounted in a vehicle, logs imagery with GPS and time information, and uses AI to identify pavement issues and roadway assets. Vialytics states that its system photographs road conditions approximately every 10 feet and presents processed results in a browser-based map.

Data-Driven Decision Making

Objective and consistently collected roadway condition information can supplement staff expertise and resident input when determining maintenance priorities.

Improved Efficiency

Vialytics is designed to collect roadway information while staff perform normal driving routes, reducing reliance on separate manual inspection activities. The company reports that its AI condition assessment can substantially reduce the time required for roadway assessment; City staff should validate those savings through a local pilot before relying on vendor performance claims.

Better Documentation

GPS- and time-associated imagery can provide a useful historical record of roadway conditions and field activities.

Capital Planning

Condition data can help staff develop more defensible pavement maintenance priorities and communicate the basis for project selection to the City Council and community.

Asset Management

A digital roadway inventory can provide a centralized source for roadway assets and conditions rather than relying solely on separate photographs, spreadsheets, or institutional knowledge.

FISCAL IMPACT:

☐ None ☐ Budgeted Item? ☒ Yes ☐ No

Budget Adjustment Needed? ☐ Yes ☒ No If yes, amount of appropriation increase: \$

Affected fund(s): ☐ General Fund ☐ Measure P Fund ☐ Measure V Fund ☐ Other:

Comments:

STRATEGIC PLAN IMPACT:

- ☐ Goal #1: Make Clearlake a Visibly Cleaner City
- ☐ Goal #2: Make Clearlake a Statistically Safer City
- ☒ Goal #3: Improve the Quality of Life in Clearlake with Improved Public Facilities
- ☒ Goal #4: Improve the Image of Clearlake
- ☐ Goal #5: Ensure Fiscal Sustainability of City
- ☐ Goal #6: Update Policies and Procedures to Current Government Standards
- ☐ Goal #7: Support Economic Development

SUGGESTED MOTIONS:

Presentation only, no action needed.

☐ Attachments: