



REGIONAL TRANSPORTATION COMMISSION

Metropolitan Planning • Public Transportation & Operations • Engineering & Construction

Metropolitan Planning Organization of Washoe County, Nevada

May 20, 2019

AGENDA ITEM 6.4

TO: Regional Transportation Commission

FROM: Scott Gibson, P.E.
Engineer II



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SUBJECT: Automated Pavement Data Collection Pilot Project

RECOMMENDATION

Receive a report on a proposed automated pavement data collection pilot project.

SUMMARY

RTC was recently contacted by the UNR Center for Applied Research about an Israeli firm that provides automated pavement and bridge management systems. Manam applications is an Israeli firm who has been working with UNR, NDOT, and RTC south to explore their services and this work is subsidized by a grant from the Israeli government. They have partnered with a Nevada Firm, Avisight, to do bridge inspection and modeling for some NDOT structures in southern Nevada. Avisight provides a full range of unmanned aerial data collection services and provides the local relationship for contracting Manam's services.

RTC and all three local entities met with Manam and viewed a presentation on their Automated Pavement Management System (PMS). Currently, data for the agency's pavement management systems is collected manually. Automated collected systems have become very sophisticated and Manam's appears to be very robust. Potential benefits of going to an automated system:

- Improved Safety
- Visual records
- More complete and accurate data sets for decisions
- More accessible data to communicate with decision-makers.

The proposed pilot project will be collecting data and evaluating 60 to 70 miles of regional roadways. The results of the pilot project will allow the RTC and local agencies to evaluate the usefulness, effectiveness, and efficiency of an automated system compared to the current methods of data collection and evaluation of regional roads.

FISCAL IMPACT

The proposed automated pavement data collection pilot project will cost \$25,000 in fuel tax funding and is programmed in the pavement preservation program for FY20.

PREVIOUS ACTIONS BY BOARD

There has been no previous Board action or direction on this matter.

ADDITIONAL BACKGROUND

All three local agencies run a pavement management system called MicroPaver that provides information and tools for efficiently managing the agency's pavement networks. Data from these systems is used by the RTC Pavement Preservation program to prioritize project section on the regional road network in a way that is blind to jurisdiction and provides the greatest benefit for the network as a whole. Pavement condition data on regional roads is collected manually by a consultant under contract to the RTC. Pavement condition data can be no more than three (3) years old so that project selections are made on current information

ADVISORY COMMITTEE(S) RECOMMENDATION

There are no advisory committee recommendations pertaining to this agenda item.