

Pavement Management System

Arizona Department of Transportation
Information Technology Group

Presented By:

Tami Price, Managed Services Program Manager
Stephen Gaerig, Project Manager

November 14, 2018

Project Objective

In 2016, the Arizona Department of Transportation's (ADOT) Transportation Systems Management and Operations Division (TSMO) was in need of a new Pavement Management System (PMS) to:

- Enhance the Department's capability in cost-effective management of pavement assets;
- Improve pavement rehabilitation and preservation project decision-making through a data driven approach to performance-based planning and programming.

Approach

The Arizona Department of Transportation (ADOT) received offers from qualified vendors, for the purchase, installation, testing, implementation, and support for a new Pavement Management System (PMS).

Project Milestones:

- Request for Proposal (RFP) advertised: June 24, 2016
- Awarded to Deighton Associates Limited: November 22, 2016
- Project Kick off: January 24, 2017
- Current Project Completion: November 30, 2018

Original Budget

Funding Category	Current Approved Development Budget	Total Dev Project Spent to Date	Remaining Budget	% Spent to Date
Professional & Outside Services	\$ 568,630	\$ 254,766	\$ 313,864	45%
Software	\$ 380,500	\$ 380,500	\$ 0	100%
TOTAL	\$ 949,130	\$ 635,266	\$ 313,864	67%

Current Budget

Funding Category	Current Approved Development Budget	Total Dev Project Spent to Date	Remaining Budget	% Spent to Date
Original Budget	\$ 949,130	\$ 635,266	\$ 313,864	67%
Change Order #1	\$ 14,781	\$ 14,781	\$ 0	100%
Change Order #2	\$ 22,680	\$ 22,680	\$ 0	100%
TOTAL	\$ 986,591	\$ 672,727	\$ 313,864	68%

Vendor Change Order #1 (6/2017 formal Change Request not required) – Move to the Cloud Data Center in support of Cloud First initiative

Vendor Change Order #2 (4/2018 ASET CR-0295) – Move Back to the On-Premises Data Center due to interface issues with GIS environment

Proposed Change Overview

In June of 2018, Pavement Management decided to integrate the Multimodal Planning Division's (MPD) automated pavement condition data for pavement performance modeling.

This proposed change will add the following tasks to the scope of the current contract for the implementation of the Pavement Management System:

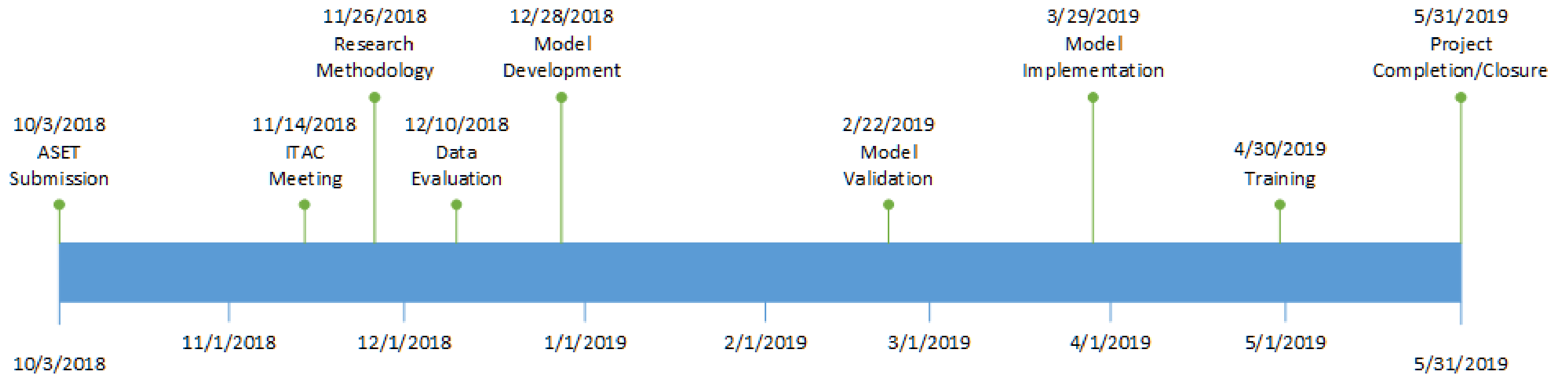
- Research Methodology
- Data Evaluation
- Model Development
- Model Validation
- Model Implementation

Benefit:

- Improve the accuracy and efficiency in data analysis

Proposed Budget and Timeline

Funding Category	Current Approved Development Budget	Total Dev Project Spent to Date	Remaining Budget	% Spent to Date
Current Budget	\$ 986,591	\$ 672,727	\$ 313,864	68%
Proposed Change	\$ 123,583	\$ 0	\$ 123,583	0%
TOTAL	\$ 1,110,174	\$ 672,727	\$ 437,447	61%



Summary

- The Pavement Management System Project has been in progress for almost two years and was projected to be completed by November 2018
- The proposed change will increase the development costs by \$123,583 and extend the project end date to May 2019
- The proposed change will:
 - Utilize MPD's automated pavement condition data
 - Improve the accuracy and efficiency in data analysis

Questions