Background:

NMDOT currently uses the PONTIS™ Bridge Management System (BMS) as its means for managing the state’s bridge inventory. PONTIS™ is an AASHTO-ware product that provides the means to collect, store and process bridge information which is used by Department management to make decisions on bridge maintenance, repair and replacement activities. SABIS serves as a supplement to this BMS and provides technical and non-technical Department employees with the means to quickly and easily locate structures of interest and review bridge information. SABIS also provides the means to view photos and videos, produces graphs, charts and formatted reports on various bridge categories, and includes a link to online street, satellite and terrain maps.

Problem Statement:
The nation is facing enormous repair and replacement costs for its aging bridge infrastructure, and a simple-to-use bridge information system is needed by technical and non-technical users who would like to review detailed information on the condition of New Mexico’s highway bridges.

Objective:

Develop a comprehensive, user-friendly Bridge Information System for Department employees that provides detailed information on New Mexico bridges, including digital images, instructional videos, and links to online maps and other resources.

Action Items:

- Determine Needs of End Users
- Research location and file format of source data
- Develop user interface
- Develop subroutines to process, analyze and report data.
- Provide simple search capabilities for non-technical users.
- Include links to online street, satellite and terrain maps.
- Provide the means to store and view digital images and instructional videos.
- Provide a hyperlink library for easy access to online resources.
- Provide the means for continual feedback from end users.
SABIS Bridge Information System  
Project Number: NM08SP-02  
Research Category: Special Projects

**Desired Results:**
- Simplified access to detailed bridge information.
- Means to view charts, graphs, photos, videos and formatted reports.
- Use of bridge data by a broad group of end users.

**Product or Service to be delivered:**
A comprehensive, user-friendly software application that provides access to detailed information on the condition of New Mexico’s bridges to a broad range of Department professionals.

**Tool to Measure Impact:**
Use of the application by Department employees.

**Standards of Success:**
Feedback from end users.

**Time Frame:** 18 months

**Project Funding:** In-House

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