

# Advanced Statewide Mechanistic Empirical Pavement Design Guide (MEPDG) Calibration NM13MSC-02

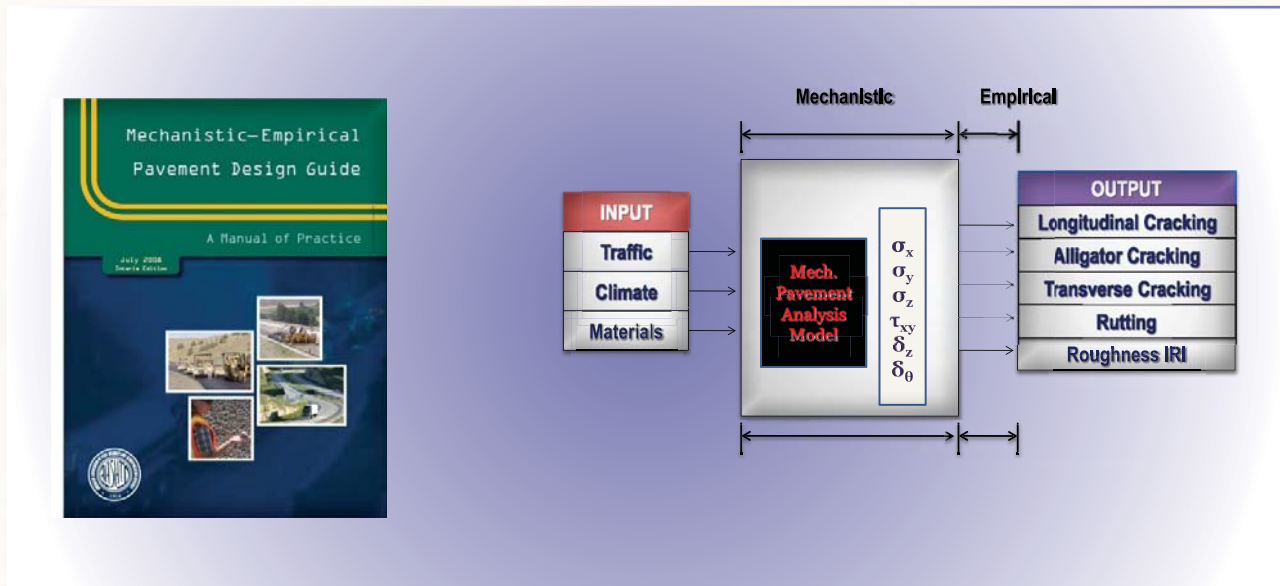
**Budget:** \$450,000      **Duration:** 48 months

## Project Summary

In previous years, NMDOT has allocated research funding to calibrate MEPDG to local materials. This is known as local calibration. While the initial local calibration proved beneficial, several significant assumptions including traffic and materials were made due to lack of quality data. With this project, the Department will apply all results of these previous research projects and continue to calibrate MEDPG. MEDPG distress predictions will be compared and evaluated from the actual pavement section and the associated distress functions within the program will be updated and revised.

The research objective is to further refine MEPDG fatigue predictions based on actual field performance.

Because MEPDG predicts the performance of pavements, the suggested approach for this research is to design a pavement section(s) by the MEPDG Level 3 methodology; conduct laboratory tests to characterize physical properties and characteristic data of actual materials used, and field monitor the performance of the section. Based on the field performance and the MEPDG predictions, adjustments to the predictive models will be made.



**Principal Investigator**  
To Be Determined

**Project Manager**  
Virgil Valdez  
NMDOT Research Bureau  
virgil.valdez@state.nm.us