Ideal data needs

Model calibration:

- Inventory data for existing pavement sections (pavement layer thickness, soil class, material type, drainage system, etc.)

- Condition data for existing pavement sections before the rehabilitation procedure, (cracking, FWD deflections, rutting, drainage)

- Construction information for the rehab strategies (overlay thickness, mix design, as-constructed information)

- Performance data recorded after the rehabilitation procedure (at least

5 years) : (rutting, cracking, FWD)

- Traffic data

- Climatic data if available. We will try ourselves to get climatic information from other sources (NOAA)

Even though we can give a clear answer on the number of pavement sections needed for calibration only after we compute for bias and precision, we will likely need data for at least 20 sections for each rehabilitation action (HMA overlay on PCC, HMA overlay on HMA, whitetopping, bonded and unbounded PCC overlays). We are also aware of the fact that many sections may not available for whitetopping, bonded and unbounded PCC overlays

For the rest of the analysis we will need:

- Typical materials used in rehabilitation along with their properties.

Please keep in mind that NCHRP projects have recommended recently new laboratory tests. Therefore, we cannot list it here.

- Any other material properties collected over the years

**- Typical costs for rehabilitation action, for LCCA, but broken down in detail for cost of materials, labor, etc..**

**This is only a preliminary list. We will provide a detailed and complete list to the states that participate in the project.**