BrM (formerly Pontis)

AASHTO’s proven Bridge Management Software
What is BrM? BrM is a powerful Bridge Management Software tool that is used by over 44 State, Federal, local, and international agencies.
BrM, stores bridge inventory and inspection data, formulates, network-wide preservation and improvement policies for use in evaluating the needs of each bridge in a network.
The LADOTD working on the implementation of their bridge management system, using BrM5.3, this system will allow the LADOTD to make consistent and cost-effective decisions for their bridge maintenance, rehabilitation, and replacement program.
The System Basics section of the manual describes the process of logging in to BrM and explain BrM’s layout and navigation
The **Bridges/view list** task serves as the BrM Homepage. The view list task is a complete list of all of the bridges in the system.
When a bridge is highlighted the Inspection Summary grouping will **display information** about the selected bridge’s most recent inspection.
The **Bridges > Manage Layout** task allows the user to create and edit layouts for the Bridge List throughout the software.
New Inspection

The *Bridges > New Inspection* task allows the user to enter basic information for a new inspection of the currently selected bridge.
The **Bridges > Suff Rate** task is used to view and calculate bridge sufficiency ratings. Yellow highlights in the Sufficiency Rating grid columns reveal changes that have occurred between a bridge's previous and currently calculated rating.
The **Bridges > Copy Structure** task is used to copy the structure information for the bridge currently selected in the Bridge List.
The Add/Remove Roadways subtask allows the user to add and/or remove roadways from the currently selected group. A new group can also be created from this page.
The **Bridges > Create Structure** task is used to create a new bridge in the system.
The *Bridges > Mapping* task allows users to view the positioning of selected bridges in Google Maps as well as map selected bridges that are currently unmapped.
*Note: Google Maps is a product of Google and therefore BrM cannot control potential browser issues with its use.

*Note: No more than 100 bridges can be mapped at a time. If more than 100 bridges are selected, the following message will appear:
The **Reports > Generate** task allows the user to generate a selected report and view the results in a variety of formats.
The inspection section of the manual addresses each of the tacks in BrM’s inspection tab. The inspection tab allows for the creation and management of inceptions, work candidates assessments, and more for a selected structure.
The **Inspection > Condition** task allows the user to manage both the NBI condition ratings and the individual element conditions for a specific inspection report.
The **Element Conditions** grouping is used to select which elements will be included in the inspection and then determine the condition states of each element.
The **Inspection > Inventory** task allows the user to modify a bridge's information through four subtasks: **Admin, Design, Roads, and Agency Items**.
Design

The *Inspection > Inventory > Design* subtask is used to modify a bridge's deck, span, length, and more. New structure units can also be created on this page.
The **Inspection > Schedule** task allows the user to schedule the upcoming inspections for the selected bridge.
The *Inspection > Work* task allows the user to set up and track work candidates for the selected bridge.
The **Inspection > Work > Project Information** subtask is used to **enter NBI project data for the selected bridge**.
The Inspection > Assessments task allows the user to create risk assessments for the selected bridge.
The **Gateway** tab provides the tools to import and export data between BrM and other systems.
The Analysis > Work Candidates task allows the user to analyze a bridge's deterioration and utility values before and after work candidates are performed.
Deterioration Charts

Red - The original deterioration
Blue - The deterioration with the selected work candidates being performed at the designated intervals
The **Analysis > LCCA** task allows the user to run a **life-cycle cost analysis (LCCA)** on the selected Bridge.
Once the desired selection have been made to set up the LCCA, click the **Run Analysis** button to run the analysis and view the results.
The performance measures are used to evaluate the selected program.
Questions?