Pavement Investment Evaluator

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Sec. 91.

[174.20] PAVEMENT SELECTION GUIDELINES.

(a) The commissioner must develop, implement, and adhere to a pavement investment guide.

(b) The commissioner must review and approve all pavement selections made by district offices for construction, reconstruction, rehabilitation, or preservation projects to ensure that the pavement selection is consistent with the pavement investment guide. Nothing in this section allows the commissioner to alter projects selected by district offices, except for the type of pavement to be used.
Was the Pavement Investment Guide
• 11,749 centerline miles of pavement
• 29,264 lane miles

• At 700 miles per year we would touch each mile of road about every 20 years
• Currently approximately $300 M Annually

• Distributed by need and formula to the Districts

• Meet performance targets

• Many fix options
  • HMA - 13
  • PCC - 11
Pavement Investment Evaluator Purpose

• Aid Districts in the selection of pavement type fixes for the STIP and CHIP.
What is new about it?

• HPMA software that will enable the Districts to more easily run mix of fix scenarios
• Vary the percentages of long, medium and short-term fixes including preventive maintenance
• Health Indicators
• Be intentional
## Existing Condition Goals

<table>
<thead>
<tr>
<th>System</th>
<th>Ride Quality Index (RQI)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>“Good” RQI Target</td>
</tr>
<tr>
<td>Interstate</td>
<td>70 percent or more</td>
</tr>
<tr>
<td>Other-NHS</td>
<td>65 percent or more</td>
</tr>
<tr>
<td>Non-NHS</td>
<td>60 percent or more</td>
</tr>
</tbody>
</table>
**Condition**: % of Miles in Good, Fair, Poor

- **Condition/VMT**: % of VMT on Good, Fair, Poor roads
- **Backlog**: % of miles with an RQI <= 2.5 that are not being fixed
- **Asset Sustainability Ratio (ASR)**: Years of Life Gained/Years lost
- **Life Category**: % of project Miles classified as Long-Med-Short life or PM
- **RSL Range**: % of miles with specified RSL values (ex: >=12, <= 4)
- **Asset Valuation**: Estimated $ value of the network based on condition
- **$/Lane-Mile**: Yearly Project Cost/Lane-Miles
- **$/ESAL-Lane-Mile**: Yearly Project Cost/Lane-Miles divided by Annual ESALs
Health Indicators

• Asset sustainability ratio
  • Are we keeping up with normal deterioration?
• Cost per lane mile per ESAL
  • Are we maximizing the benefit to the public?
• Percent of miles traveled on poor and good roads
  • Are providing smooth roads to the maximum number of travelers?
Current Status

• Beta version complete
  • Completion scheduled for February 2023

• Materials lab support
  • New dedicated employee

• Meetings with District Materials Engineers

• Policy Committee
  • PIE Process
  • Commissioner approval
  • CO and District Members

• We plan on giving demonstrations to industry this spring