Transportation Asset Management is...
“an ongoing process of maintaining, upgrading, and operating physical assets cost effectively, based on a continuous physical inventory and condition assessment” (PA 499, of 2002).

What Destroys A Pavement?
- Water – weakens structure
- Traffic – excessive loadings & volumes
- Environment – temperature & oxidation

Pavement Surface Evaluation and Rating (PASER)
The Pavement Surface Evaluation and Rating (PASER) system is a visual pavement survey methodology based on the number, type, and extent of distresses present in a pavement. The PASER scale is 1 to 10, with 10 being brand new pavement and 1 being totally failed. In general, pavements with a PASER of 8 to 10 need little or no maintenance. Pavements with PASER scores of 5 to 7 need capital preventative maintenance, and pavements with PASER scores of 1 to 4 need structural improvement.

Do you use Asset Management every day?
Yes. Most people use asset management every day to manage things like maintenance on a car, repair and upkeep of a home or even with things as basic as health care. Businesses use asset management principles extensively.
Window of Opportunity
If you apply a fix to a pavement too early or too late in the pavement’s life, you are not likely to gain the optimal benefit from the fix. Each pavement fix has a window of opportunity for preventive maintenance or structural improvement.

Mix-of-Fixes Approach to Pavements
A mix of fixes is a pavement management strategy of applying the right fix at the right time in the right place. This approach makes preventive maintenance the priority, capitalizing on the “windows of opportunity” for treatment while using rehabilitation and reconstruction only when necessary. The goal is to keep good pavements in good condition longer, thus delaying the need for more costly rehabilitation and reconstruction projects.

Key Pavement Management Definitions

- **Critical Distress Point (CDP)** – Point when pavement distress changes from needing preventive maintenance to needing structural improvement.

- **Remaining Service Life (RSL)** – Time in years from the present to the point when pavement distresses are structural (CDP) and preventive maintenance treatments are no longer cost effective.

- **Extended Service Life (ESL)** – Time in years added to the current RSL based on the type of fix used.
## Preventive Maintenance Treatments

<table>
<thead>
<tr>
<th>What it is</th>
<th>How long it lasts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crack seal</td>
<td>1-2 years</td>
</tr>
<tr>
<td>Fog seal</td>
<td>1-2 years</td>
</tr>
<tr>
<td>Slurry seal</td>
<td>3-6 years</td>
</tr>
<tr>
<td>Microsurfacing</td>
<td>3-6 years or more, if properly applied</td>
</tr>
<tr>
<td>Seal coat (chip seal)</td>
<td>3-6 years, possibly longer</td>
</tr>
</tbody>
</table>


## Structural Improvements

<table>
<thead>
<tr>
<th>What it is</th>
<th>How long it lasts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural overlay</td>
<td>5-10 years, possibly longer</td>
</tr>
<tr>
<td>Crush and shape</td>
<td></td>
</tr>
<tr>
<td>Reconstruction</td>
<td></td>
</tr>
</tbody>
</table>


![Pavement Management Strategies](image)

**Cost per Year of Added Life**

- Preventive Maintenance
- Rehabilitation
- Reconstruction

Transportation Asset Management for Local Officials

http://www.michiganltap.org

906-487-2102
Michigan Transportation Asset Management Council (TAMC)

The Michigan Transportation Asset Management Council (TAMC) is composed of representation from:

- Local agencies
- County Road Association of Michigan
- Metropolitan Planning Organizations
- Michigan Municipal League
- Michigan Association of Counties
- Michigan Association of Regions
- Michigan Townships Association
- Michigan Department of Transportation
- Michigan Department of Technology
- Michigan Municipal League

The TAMC is working to:

- Implement recommendations of Act 51 Funding Committee
- Move from needs studies to managing pavements and bridges in the state
- See the road system as the customer sees it – without boundaries
- Work cooperatively rather than competitively between road owning agencies.

Michigan TAMC Quick Facts

- Established by Act 499 of Public Acts of 2002
- http://michigan.gov/tamc

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