

# Pavement Management

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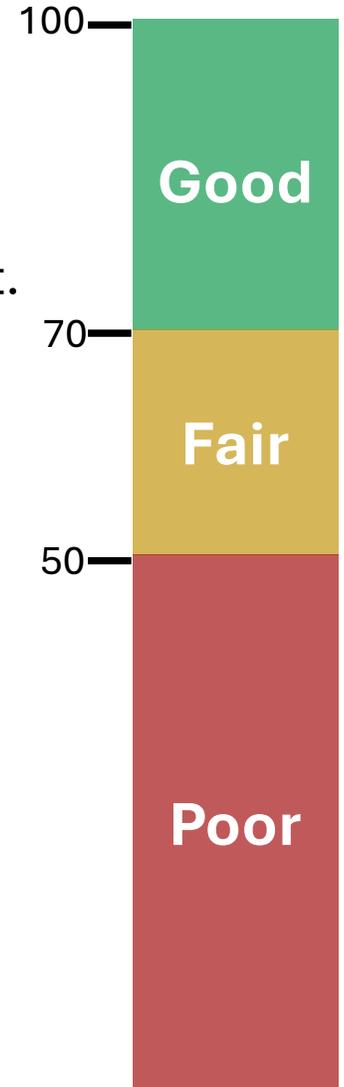
# Roadway Asset Services Contract

- New pavement software - modernize data collection and analytics
- Laser-based automated surveys (e.g., mobile survey vans) to collect pavement condition data
  - **Year 1** ~ 902 miles (single pass residential/local)
  - **Year 2** ~ 416 miles (two-directional collectors)
  - **Year 3** ~ 972 miles (two-directional arterials)
- PCI results analyzed in the BOSS (Budget Optimization Street Selector) pavement management system to optimize treatments
- Enables long-term forecasting for pavement preservation and street overlay programs

# Pavement Condition Index Methodology

## Current Methodology

- Visual surveys of collectors, residential streets, and parking lots by Pavement Management Technicians with recommended treatments.
- Arterial surveys conducted using automated methods.
- PAVER 7.0 software compiles survey results to generate the maintenance forecast.
- PAVER 7.0 calculates PCI adjustments for all surveyed roadways.



# Pavement Lifecycle

## Preservation Treatments

### Mesa

- Fog Seal
- Seal Coat
- Slurry Seal
- Mill & Overlay

### Industry

- Fog Seal
- Slurry Seal
- Mill & Overlay

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## Expected Pavement Lifecycle

~ 40–45 years

~ 15 years (no preservation)  
~ 25–30 years

# Pavement Treatment Costs

<b>Treatment</b>	<b>Cost/Sq. Yd.</b>	<b>Life Added</b>
<b>Fog Seal</b>	\$1.50	1-3 Years
<b>Seal Coat</b>	\$1.50	5-7 Years
<b>Slurry Seal</b>	\$3.50	7-10 Years
<b>Mill &amp; Overlay</b>	\$45	Structural Reset

# Questions

# Pavement Treatment: Fog Seal



## **Fog Seal**

### **Target**

1 year after new asphalt.  
Industry Standard 1-3 years

### **Cost/Sq. Yd**

\$1.50

### **Life Added**

1-3 Years

# Pavement Treatment: Seal Coat



## Seal Coat

### Target

3-5 years after new asphalt

### Cost/Sq. Yd

\$1.50

### Life Added

5-7 Years

# Pavement Treatment: Slurry Seal



## Slurry Seal

### Target

7-10 years after new asphalt

### Cost/Sq. Yd

\$3.50

### Life Added

7-10 Years

# Pavement Treatment: Mill and Overlay



## Mill and Overlay

Cost/Sq. Yd

\$45

Life Added

Structural Reset