



El Paso County
2023 Paving Program

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Pavement Maintenance

▶ OBJECTIVES

- ▶ Preserve and extend life of paved roads
- ▶ Maintain current roadway operations
- ▶ Most cost-effective preservation plan

▶ WORK INVOLVED

- ▶ No change to geometry
- ▶ Repair/improve surface materials

EPC Road System

- ▶ Paved road system - 2022 centerline miles (2021)
 - ▶ 1,150.54 centerline miles (1,157.07 in 2021)*
 - ▶ 2,349.27 lane miles (2,369 in 2021)*
- ▶ Gravel road system - 2022 centerline miles (2021)
 - ▶ 1,047 centerline miles (1,048 in 2021)*
 - ▶ 2080 lane miles (2,082 in 2021)*

* EPC Road System centerline miles have decreased due to City of Colorado Springs annexations of County assets

Review Process

- ▶ Complete a pavement analysis on the entire roadway network
- ▶ Prioritization process
 - ▶ Cost-effective
 - ▶ Field evaluation
 - ▶ Adjust treatments as needed
- ▶ Finalize for budget of \$20 million
- ▶ Plan to begin construction as early as late April
 - ▶ 2022 PPRTA paving began May 25
 - ▶ 2023 PPRTA could begin early May or late April

2023 (2022) County Wide Program (Centerline Miles)

Paving 2023 (2022)

District 1:	11.97	(26.24)
District 2:	22.95	(20.24)
District 3:	0.37	(3.33)
District 4:	11.35	(6.76)
District 5:	0.43	0.00
Paving Total:	47.07	(56.57)



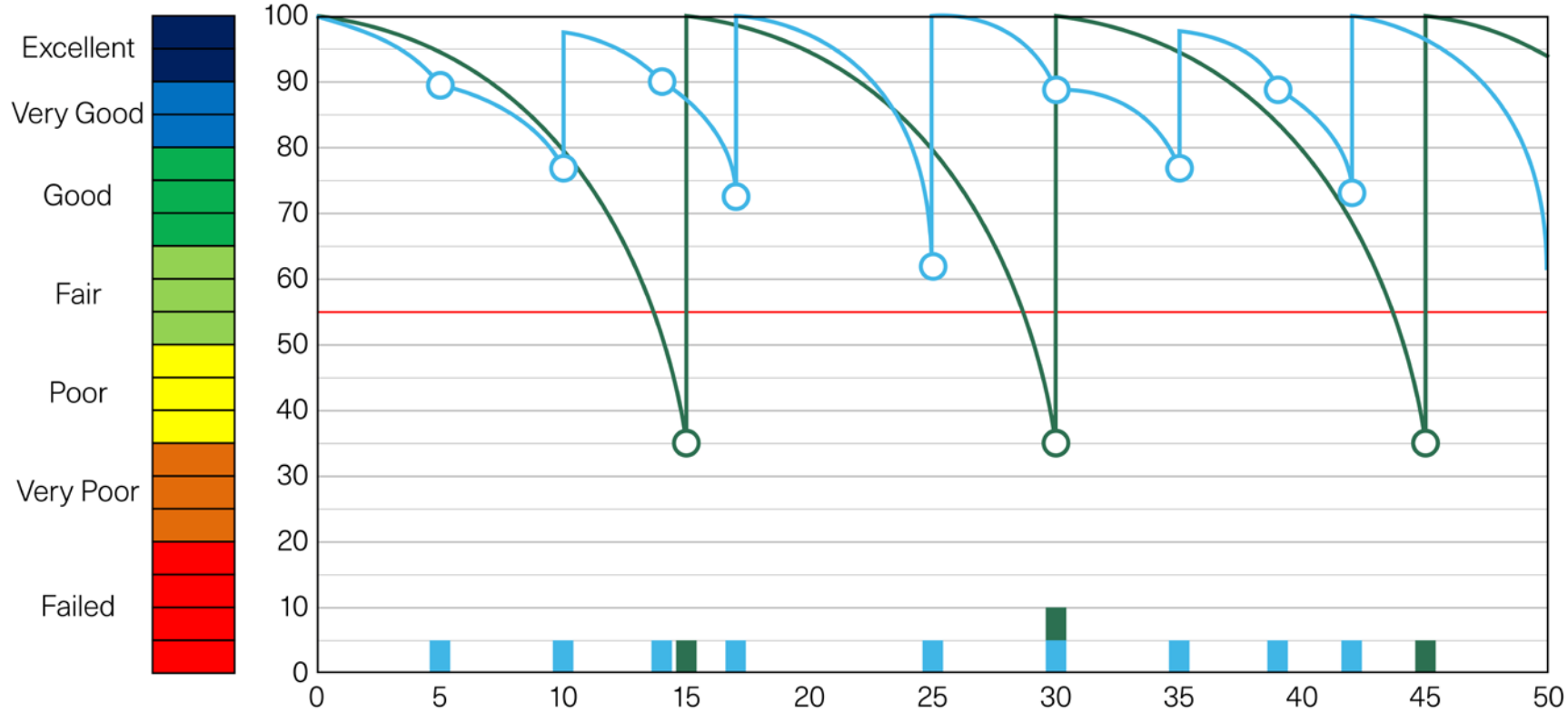
Innovative Processes

- ▶ Cape Seal
 - ▶ Two-part application; chip seal and slurry seal
 - ▶ High volume roads
 - ▶ Longer life expectancy
- ▶ Micro - Surfacing
 - ▶ Pilot treatment for EPC
 - ▶ Good for placement in high shade areas such as Black Forest
- ▶ Wide Crack Repair
 - ▶ Full depth repair of transverse cracks
 - ▶ Typically, greater than 1" in width
- ▶ Dust Abatement with Sustainable Byproducts
 - ▶ County has trialed wheat germ with success
 - ▶ Plan to trial beet juice/pulp summer 2023
 - ▶ Potentially two test segments, not more than 6 miles



Questions

Preservation vs. Rehabilitation



Preservation Strategy: —○—
 Years 5, 14, 30 & 39: Crack Sealing
 Years 10 & 35: Micro Surfacing (Double)
 Years 17 & 42: Chip Seal
 Year 25: Mill & Pave

Rehabilitation Strategy: —○—
 Year 15: Unstabilized FDR plus 4" HMA Overlay
 Year 30: Unstabilized FDR plus 4" HMA Overlay
 Year 45: Unstabilized FDR plus 4" HMA Overlay

Total Cost*/SY Over 50 Years = \$37.20

Total Cost*/SY Over 50 Years = \$63.00

*present day costs