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Augusta, GA

Pavement Assessment 2025

Agenda

- 1 Pavement Management Process
- 2 Pavement Condition Survey
- 3 Representative Conditions
- 4 Overview of Pavement Conditions
- 5 Analysis and Project Planning

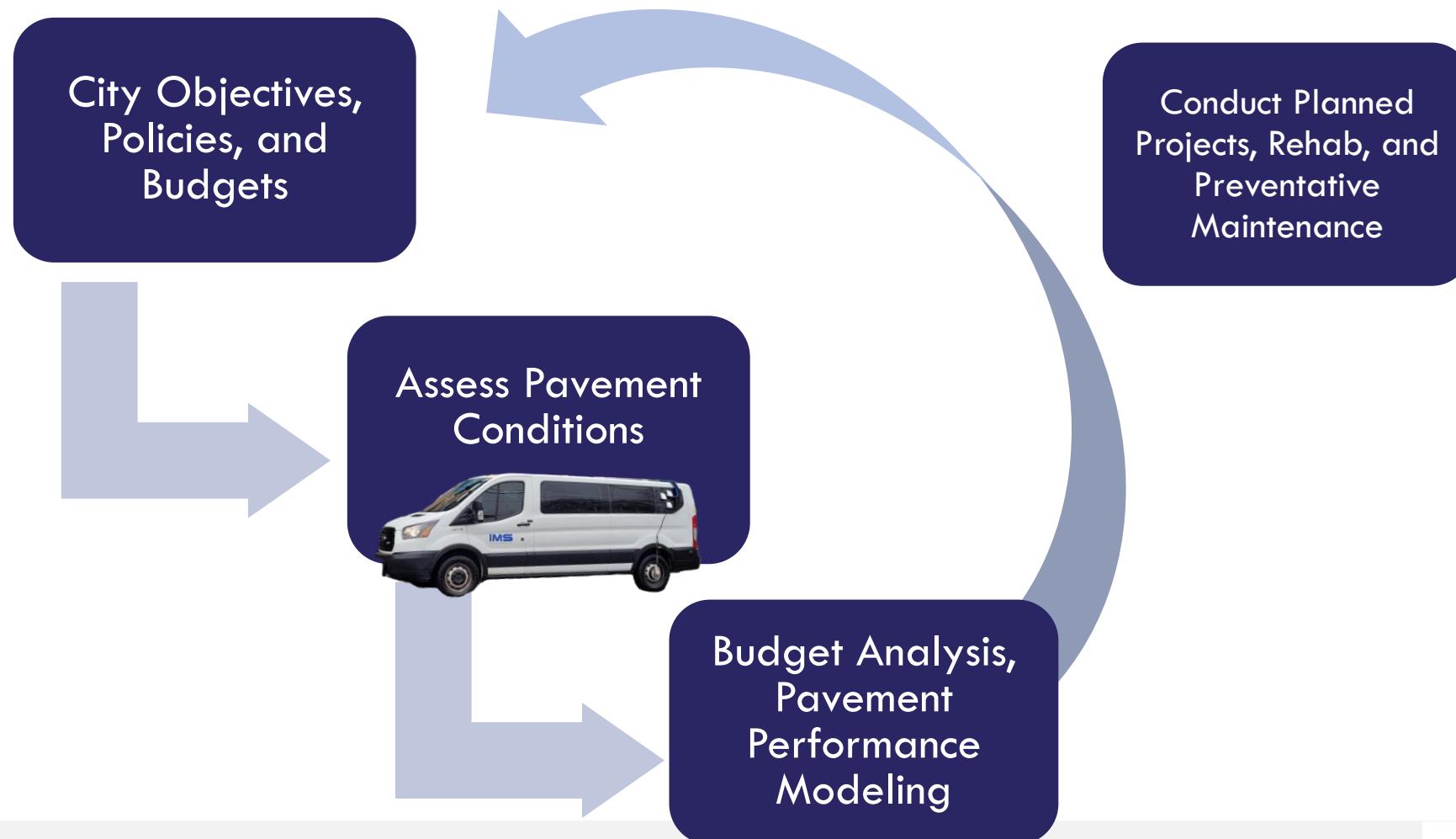


Pavement Management Process

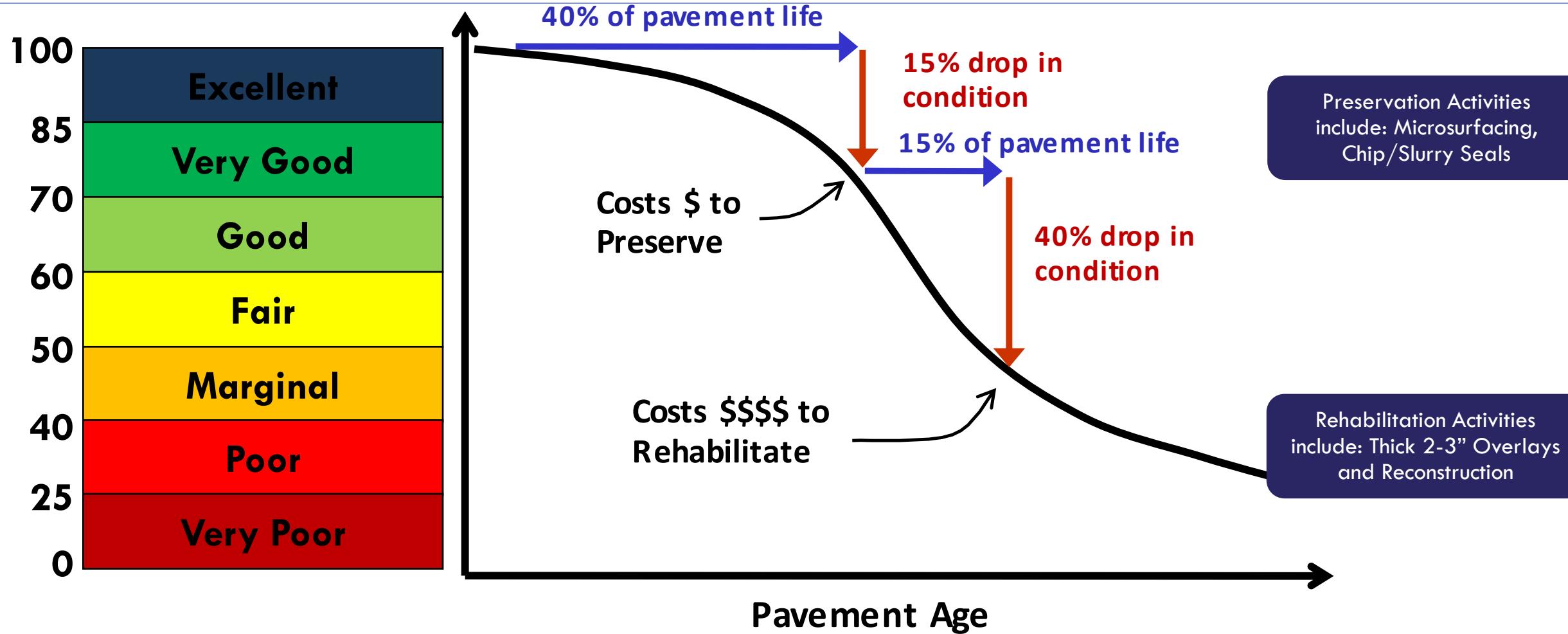


Pavement Management Process

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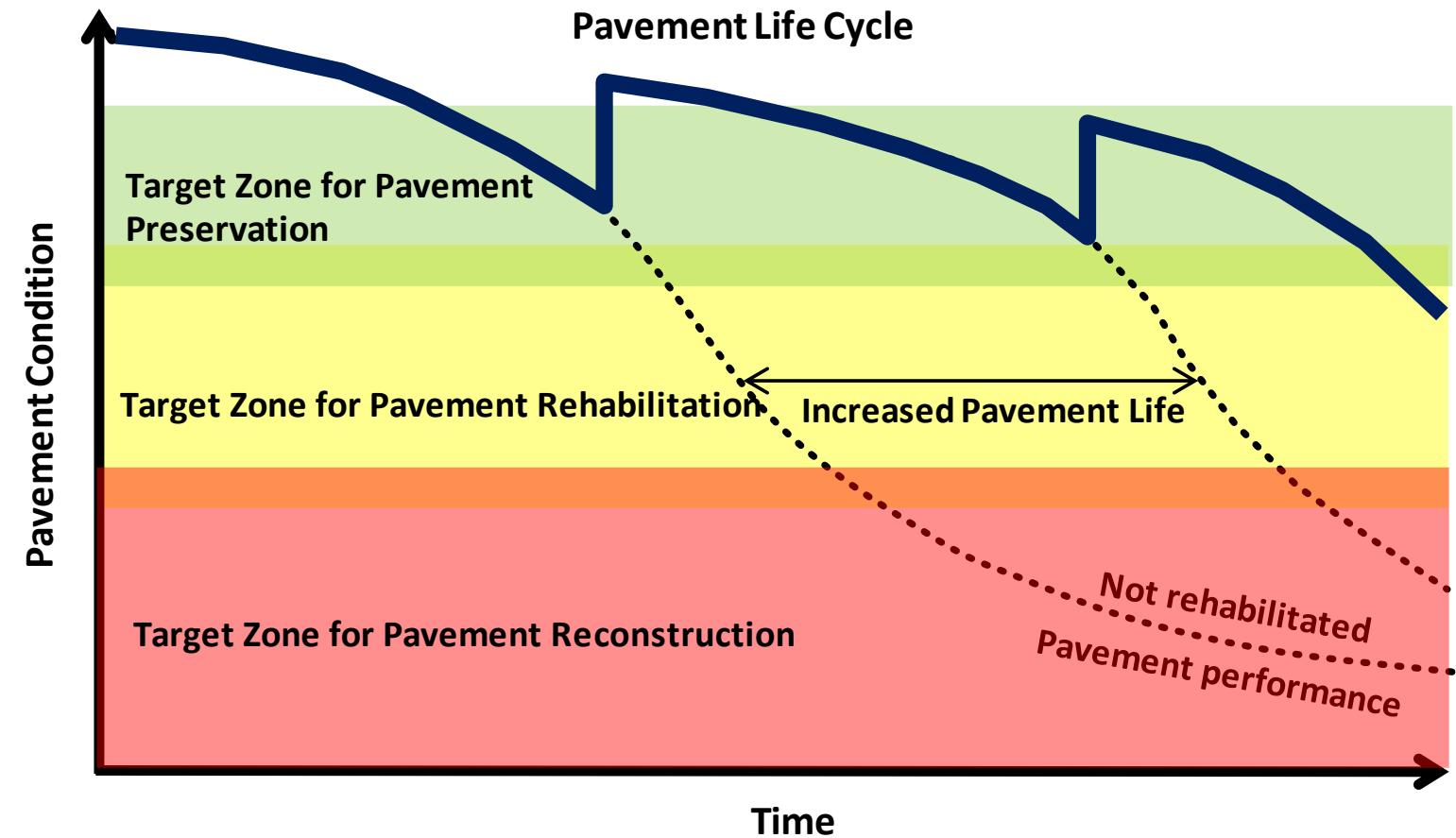


Cost of Deferral



Cost of Deferral

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Pavement Condition Survey



Various Pavement Distresses

Alligator Cracking



Rutting



Longitudinal & Transverse Cracking



Block Cracking



Patching



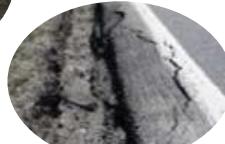
Raveling



Bleeding



Edge Cracking



Distortion



Weathering



Additional Measurement(s): Roughness

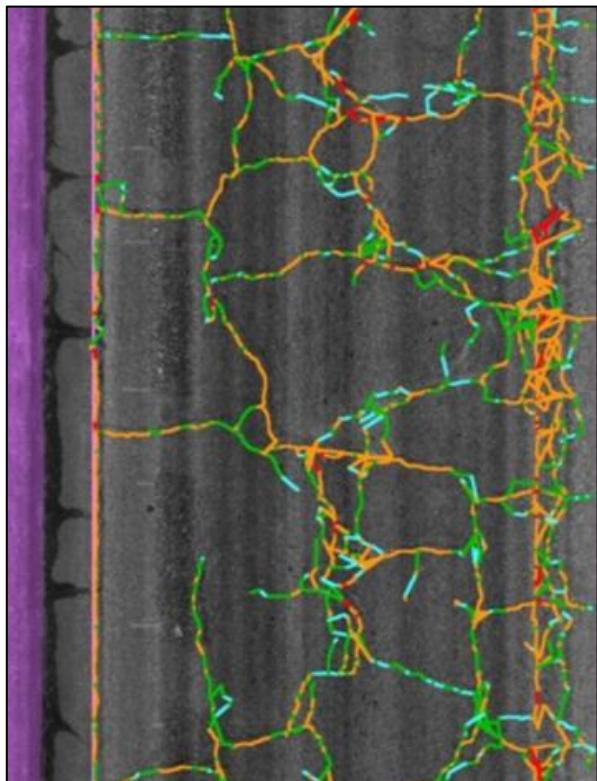
We are paving the way forward.



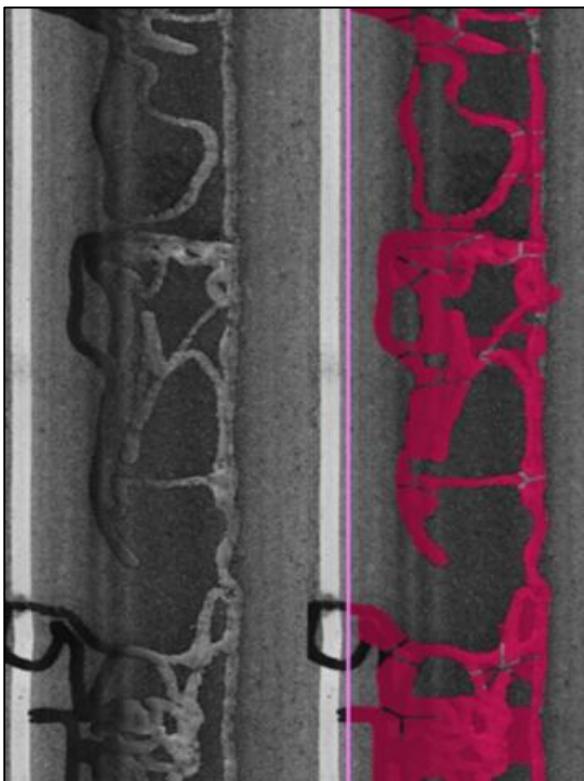
Laser Crack Measurement System (LCMS-2) Pavement Distress Analysis

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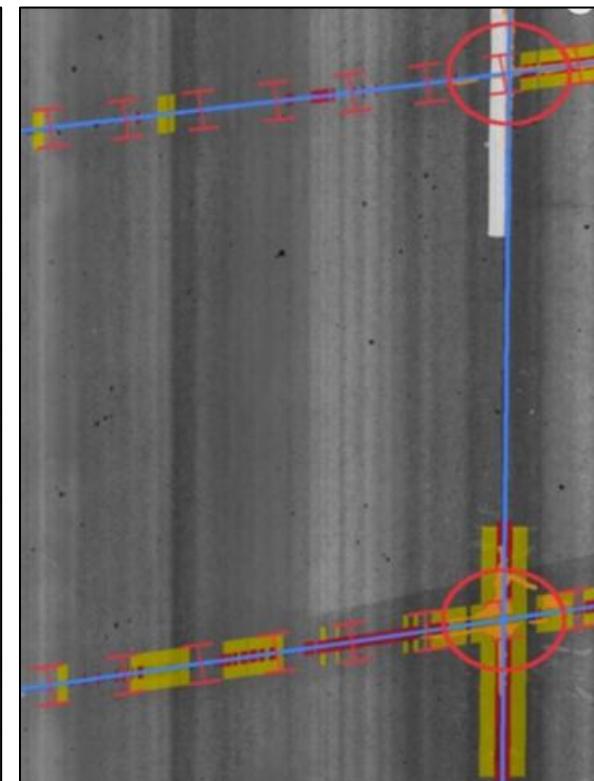
Cracks



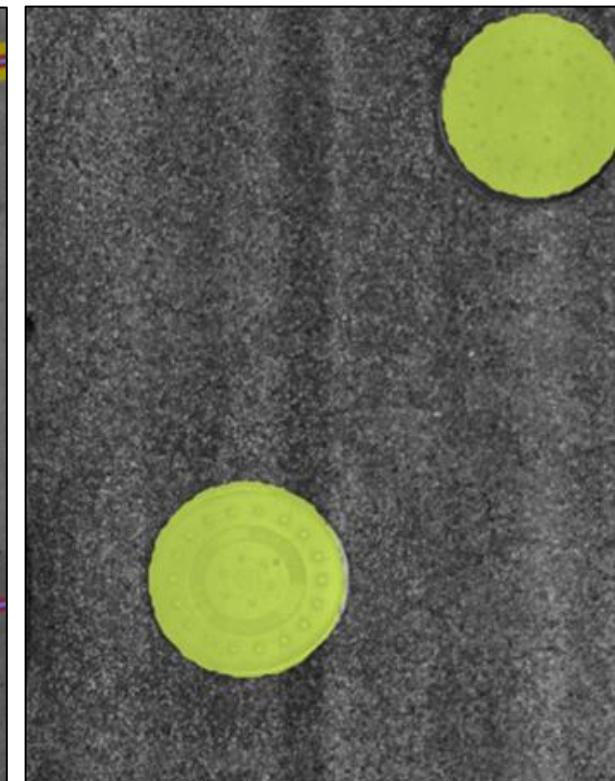
Sealed Cracks



Concrete Joints

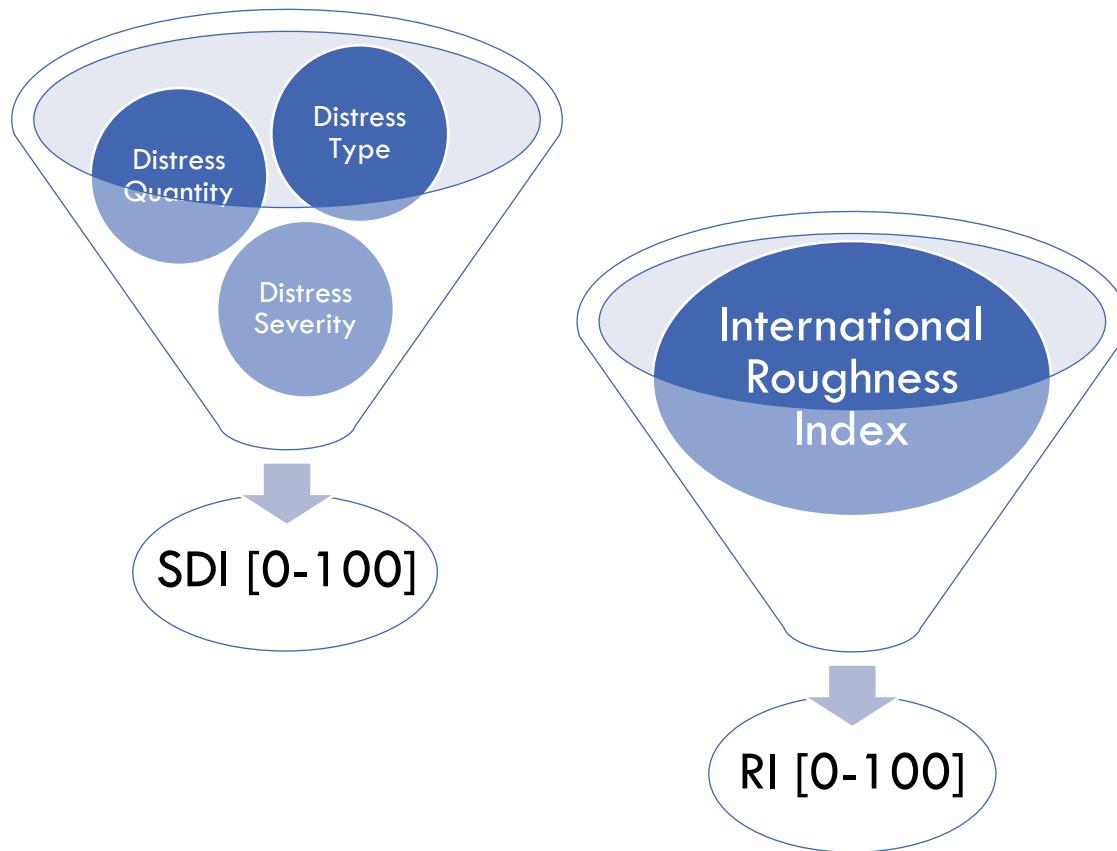


Utilities



Pavement Measurements (Surface Distress and Roughness)

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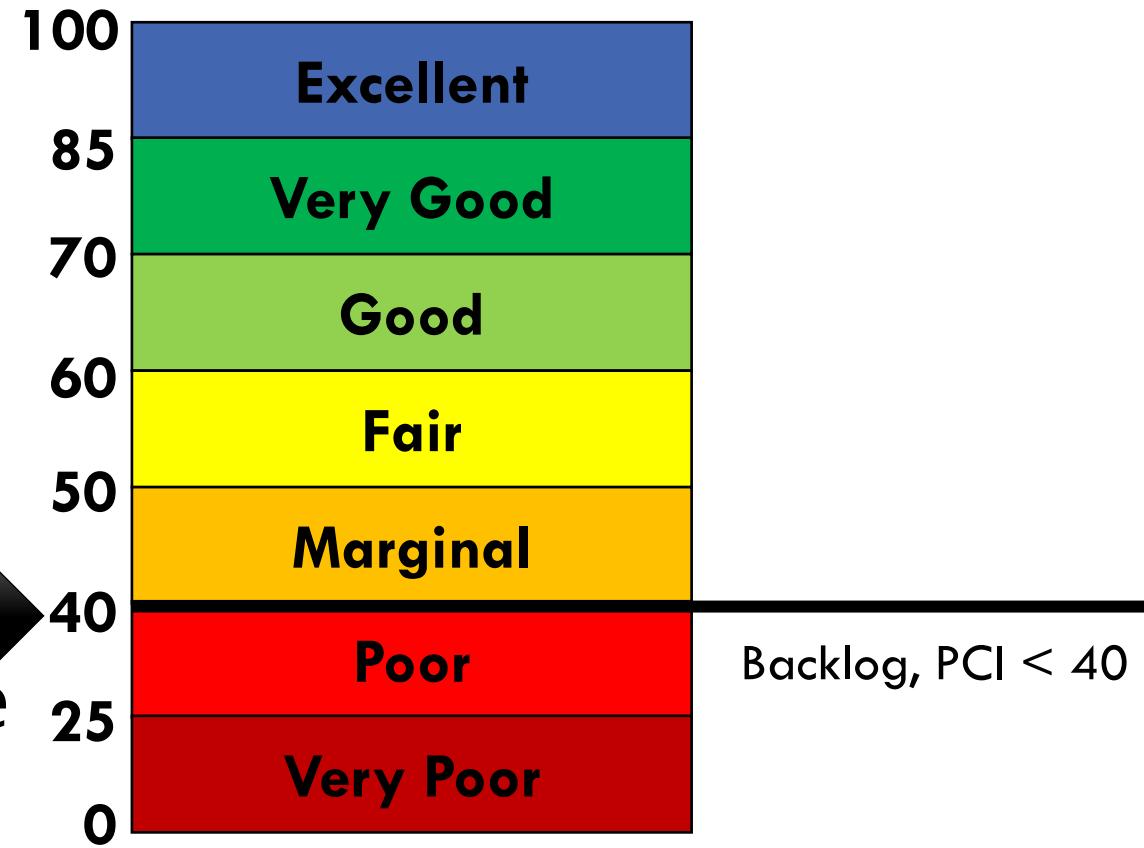
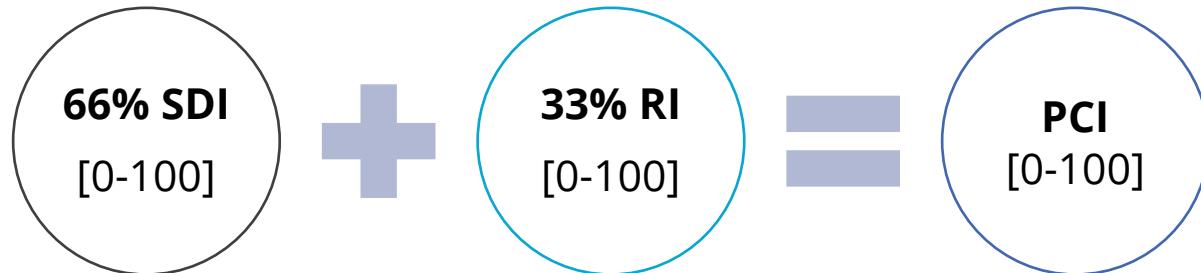


- SDI: Surface Distress Index (Following ASTM D6433)
 - The aggregation of the observed pavement defects; namely potholes, cracking, and rutting.
- RI: Roughness Index (Following ASTM E1926)
 - A measure of the change in elevation over a distance expressed as a slope and reported in millimeters/meter.

**Tested and repeatable standards
used in DOTs across the country,
including GDOT**

Pavement Condition Index (PCI)

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At about a 40 PCI or below
Routine Repair & Maintenance are
no longer an option!

Representative Pavement Conditions





Very Poor (PCI 0 -25)
<1% of the network

**Taylor Street from
Beans Lane to Seventh
Street
(GISID =94710, PCI = 19)**
**Alligator Cracking is
major distress.**



Poor (PCI 25 - 40)
4% of the network

**Aiken Street from
Beaufort Avenue to Sea
Isle Drive
(GISID 1320, PCI = 30)
Alligator Cracking is
major distress.**

**This street has already
been scheduled for
rehabilitation in coming
years.**



Marginal (PCI 40 - 50)
7% of the network

**Richmond Hill Road from
Overlook Road to Lynda
Drive**
(GISID 82840, PCI = 44)
**Isolated Alligator and
longitudinal Cracking**

**This street has already
been scheduled for
rehabilitation in coming
years.**



Fair (PCI 50 - 60)
11% of the network

**Johns Road from Central
Avenue to Queens
(GISID 52980, PCI = 56)**
**Longitudinal and
Transverse Cracking**



**Good (PCI 60 - 70)
16% of the network**

**Wheeless Road from
Pinewood Drive to Clinton
Road
(GISID 105970, PCI = 65)
Minor L&T Cracking**



Very Good (PCI 70 - 85)
30% of the network

**Wrightsboro Road from
Johns Road to Anthony
Road**
(GISID 110560, PCI = 73)
Minor L&T Cracking.



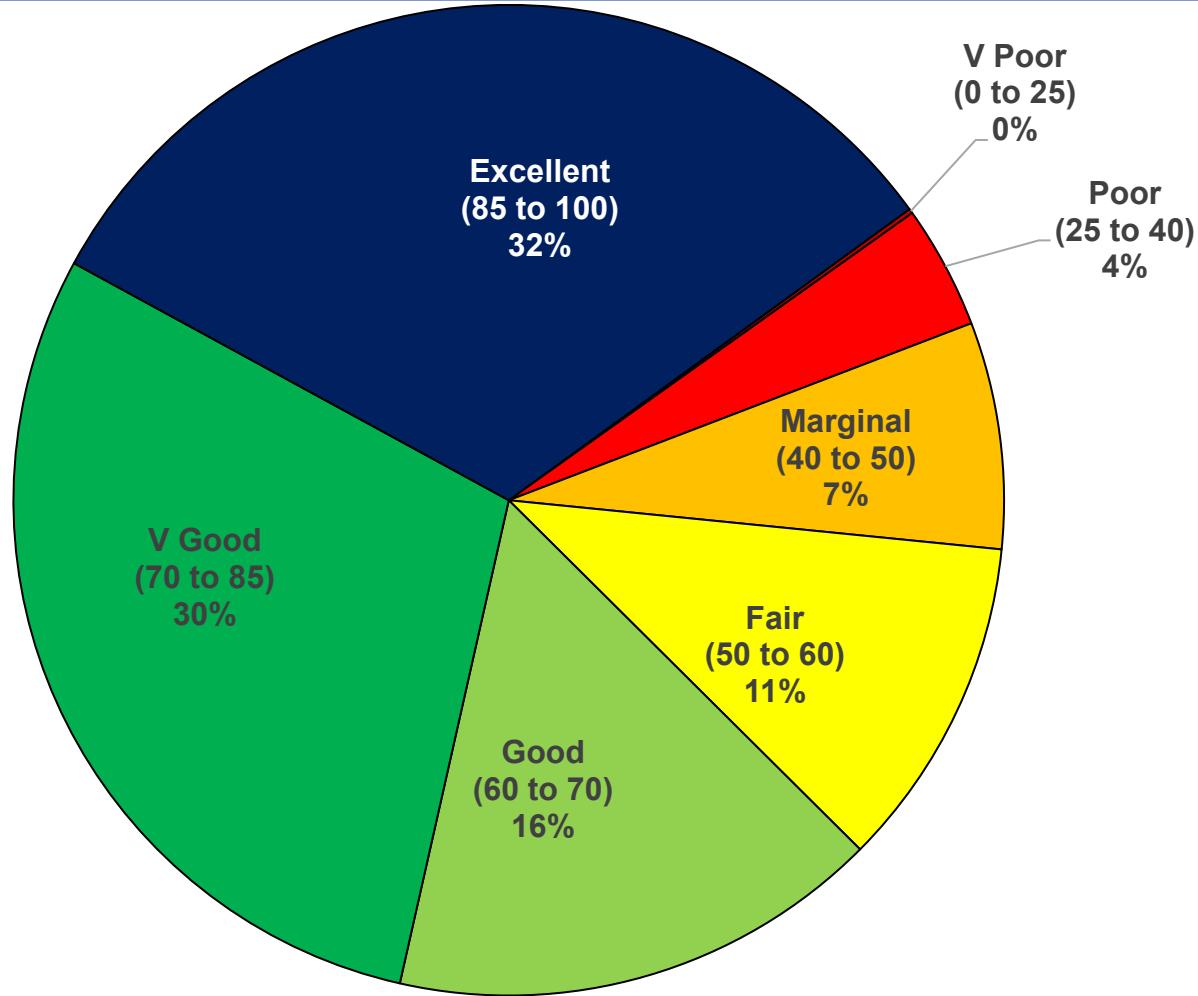
Excellent (PCI 85 - 100)
32% of the network

**Mike Padgett Highway
from Doug Barnard
Parkway to Allen
Station
(GISID 65300, PCI = 98)
Few to no detectable
distresses.**

Overview of Pavement Conditions



2025 Pavement Conditions



Centerline Miles:
1326

2022

2025

Network Average
PCI in 2022: 52

+22

Network
Average PCI: 74

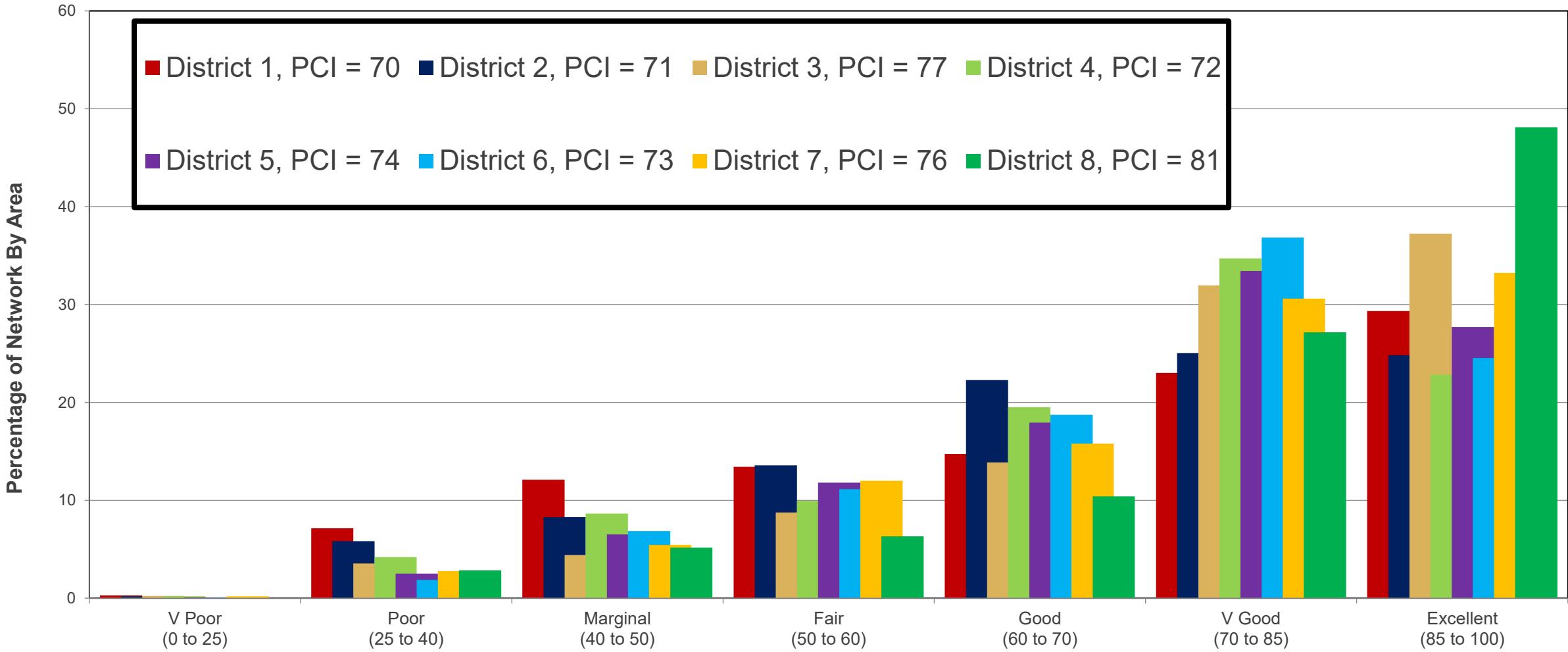
Backlog in 2022:
21%

-17

Backlog: 4%

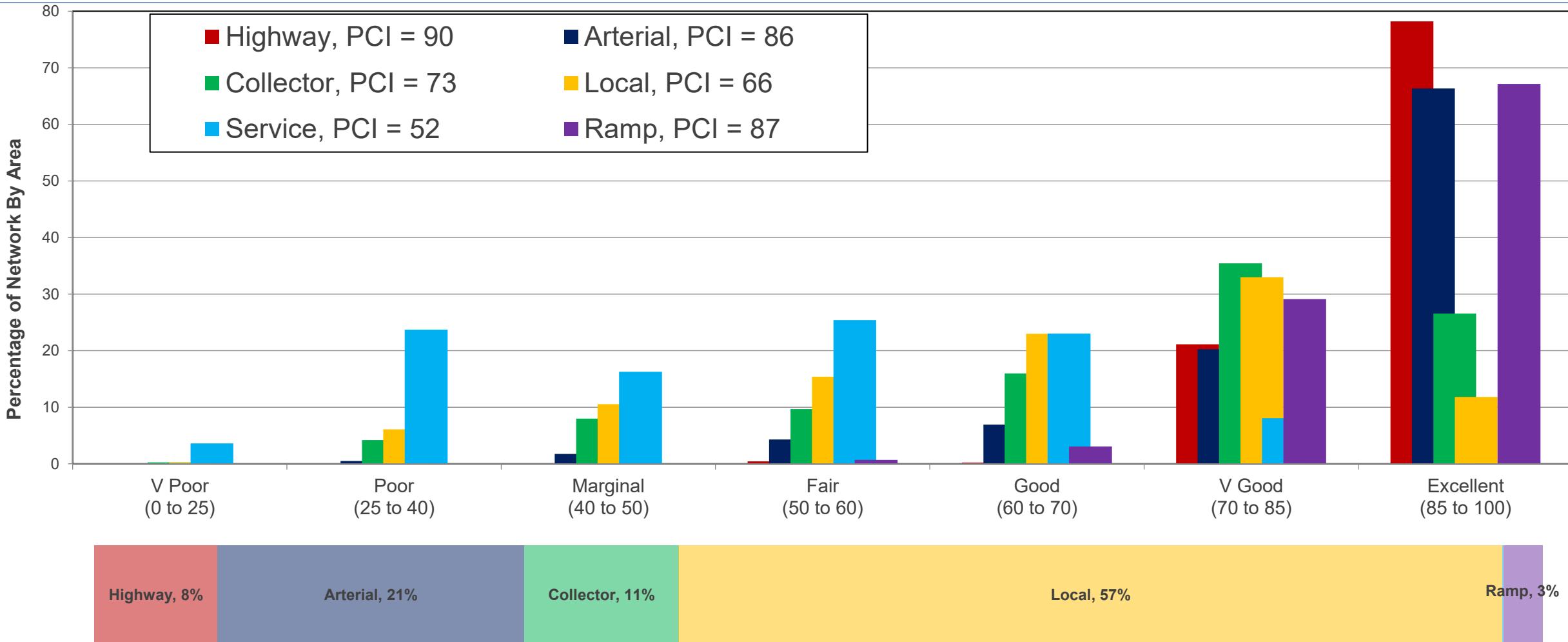
2025 Pavement Conditions

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2025 Pavement Conditions Per Functional Class

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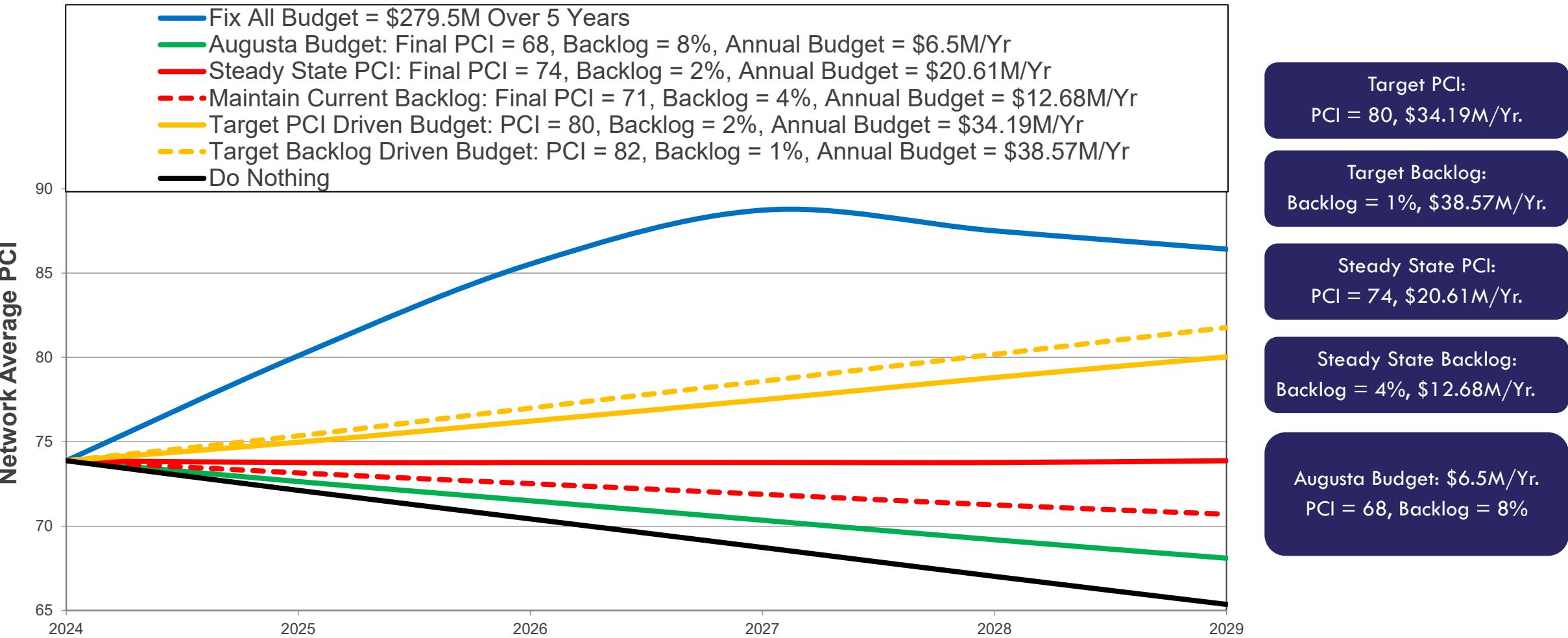


Analysis and Project Planning



2025 5-Year Funding Models

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Pavement Analysis Recommendations



- **Focus on district and functional class needs for prioritizing treatments.**
 - Districts 1 and 2 have the lowest average PCI
 - Service roads have a lower PCI than other functional classes but only account for 3% of the network.
- **Augusta should allocate a percentage of their budget to preservation techniques.**
 - Each district has an average PCI of 70 or above, placing them in the ideal range for preservation treatments such as slurry seals and microsurfacing.
- **Augusta should try to maintain or improve current conditions.**
 - Maintaining a pavement network in good condition is more cost-effective than restoring conditions after deterioration.

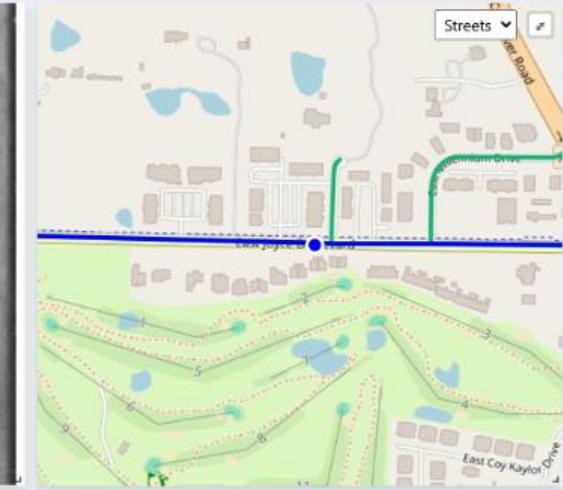
Data Visualization (Inform)



INFORM

FayettevilleAR Collection Date Jan 11 2024

Year: 2024 Street: E JOYCE BLVD Street #: 4805 From Street: N SUNBEST PL To Street: E MILLENNIUM DR Block #: 30 GISID: 1639_1 IsPrimaryDirection: True





GISID	SPEED MPH	SURFTYPE	STREET NAME	STR_NO	FROM STREET	TO STREET
13103_0	17.8	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
13103_1	21.4	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
13104_0	15	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
13104_1	20.8	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
13127_0	23.5	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
13127_1	19.5	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
13128_0	22.4	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
13128_1	21.8	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
1377_0	24.9	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
1377_1	27.1	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
1639_0	36.7	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR
1639_1	35	ACP	E JOYCE BLVD	4805	N SUNBEST PL	E MILLENNIUM DR



Thank You

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