Town of Apex, NC
2026 Pavement Condition Survey
Council Presentation

October 27, 2026

Pavement Navigators

- Est – October 2025
- Services Provided
  - Pavement Condition Surveys
  - Lifecycle Modeling
  - Construction Documents
  - Construction Inspection
  - PCS Training







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PAVEMENT MANAGEMENT BLUEPRINT

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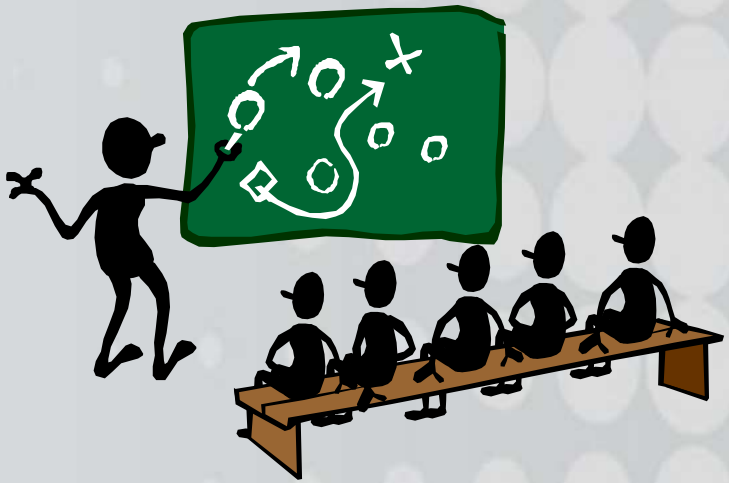
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Planning

- Vision/Goals
- Level of Service (LOS)
- Funding
- Broadening the Maintenance Toolbox
- Outcomes



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Level of Service

PCI Condition State	
VERY GOOD	91 - 100
GOOD	81 - 91
FAIR	65 - 81
POOR	26 - 65
VERY POOR	0 - 26



VERY GOOD

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Level of Service

PCI Condition State	
VERY GOOD	91 - 100
GOOD	81 - 91
FAIR	65 - 81
POOR	26 - 65
VERY POOR	0 - 26



GOOD

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Level of Service

PCI Condition State	
VERY GOOD	91 - 100
GOOD	81 - 91
FAIR	65 - 81
POOR	26 - 65
VERY POOR	0 - 26



FAIR

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Level of Service

PCI Condition State	
VERY GOOD	91 - 100
GOOD	81 - 91
FAIR	65 - 81
POOR	26 - 65
VERY POOR	0 - 26



POOR

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Level of Service

PCI Condition State	
VERY GOOD	91 - 100
GOOD	81 - 91
FAIR	65 - 81
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VERY POOR

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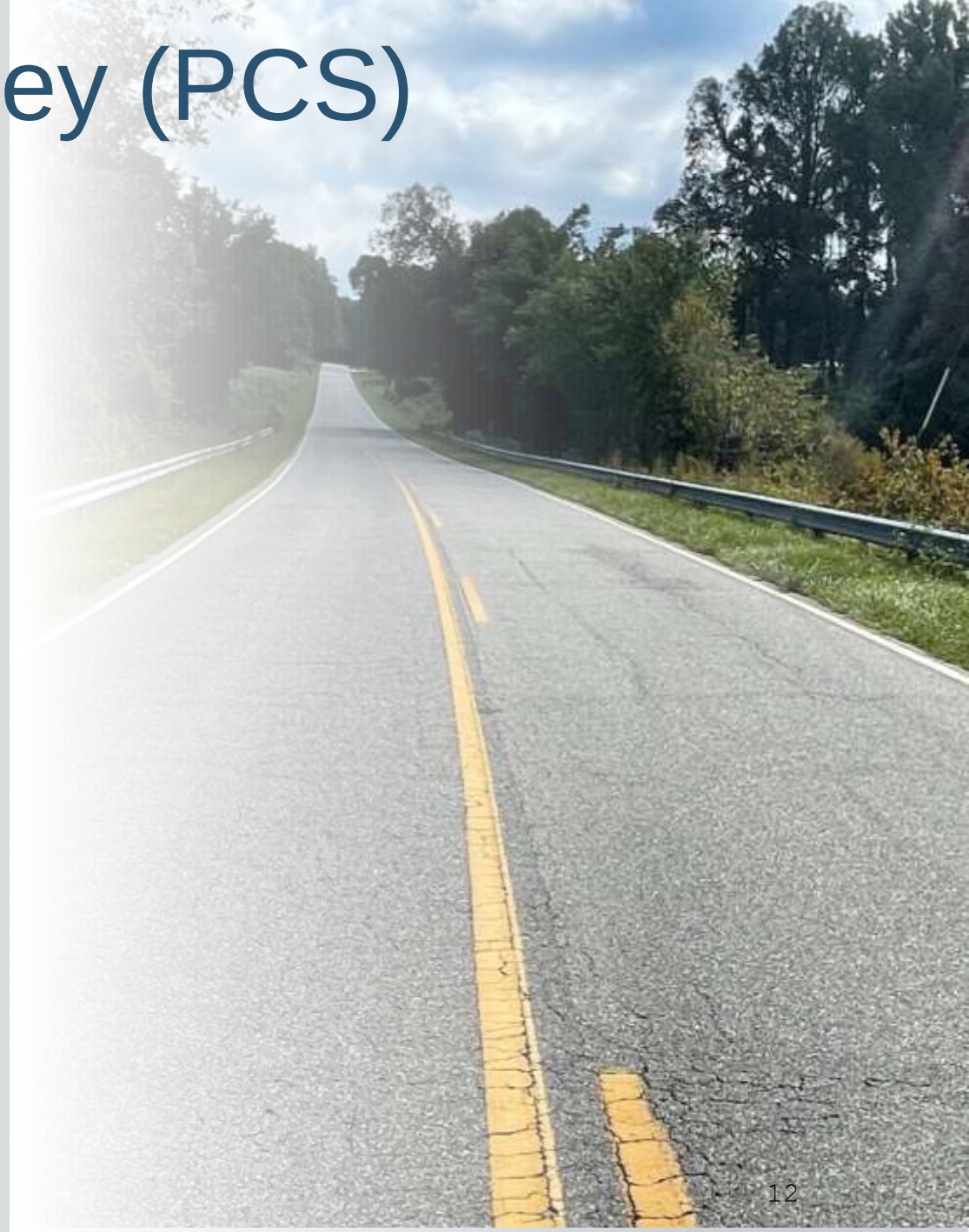
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Pavement Condition Survey (PCS)

- Pavement Condition Survey (PCS)
  - FHWA: Frequency: 2-3 years
  - Unbiased Perspective
- Lifecycle Modeling
  - Predictive Modeling
  - Optimized Work Plans
- Report



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PCS Methodology

- Town maintains 268 miles of streets
- Completed the PCS in June 2026
- Seven common pavement surface distresses observed (LTPP)
- Severity and Extent for all distresses
    1. Fatigue Cracking (FC)
    2. Transverse Cracking (TC)
    3. Block Cracking (BC)
    4. Patching/Potholes (PP)
    5. Surface Defects (SD)
    6. Rutting/Roughness (RR)
    7. Reflective Cracking (RC)



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Findings

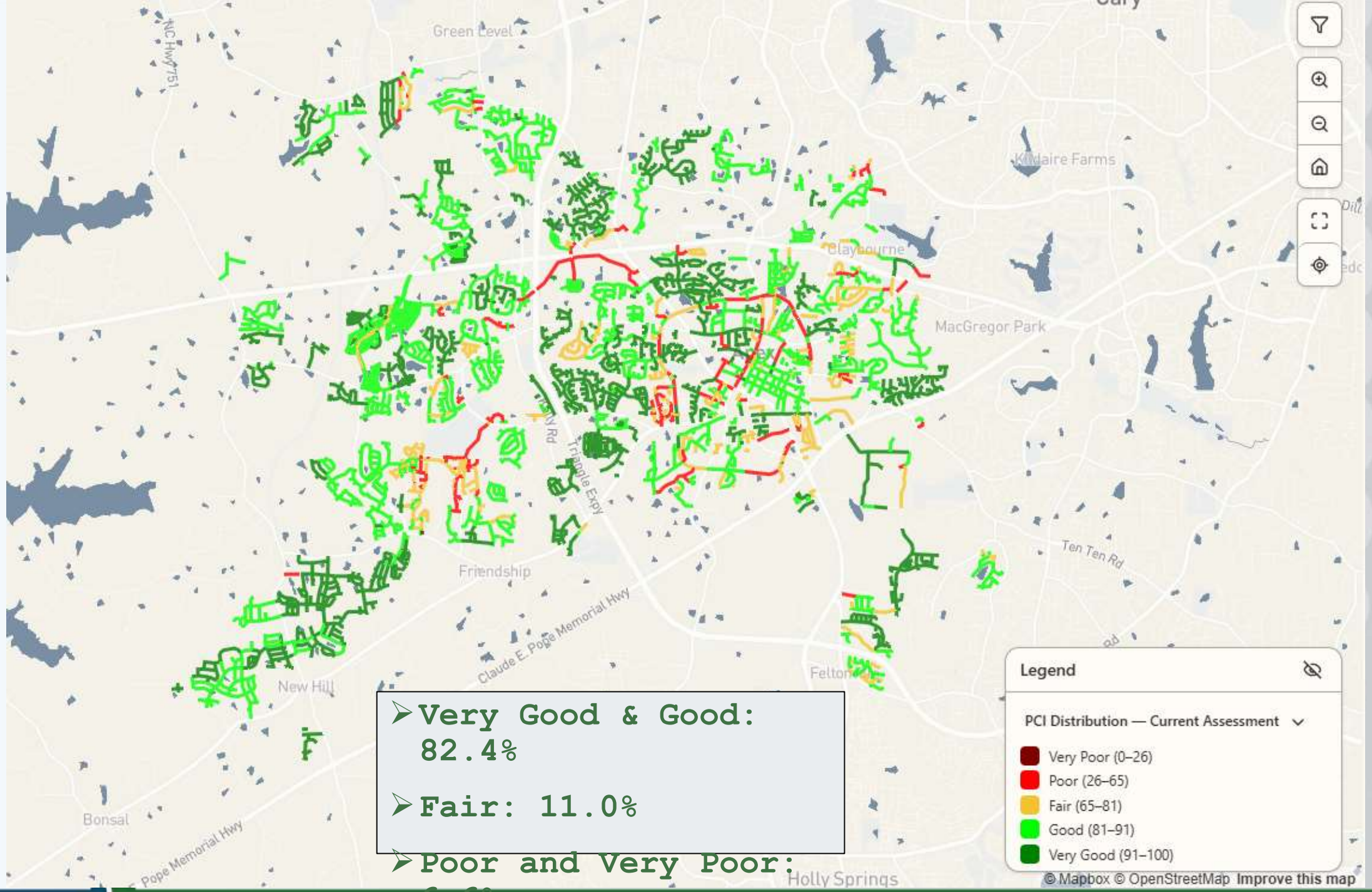
- **PCI = 86**
  - Other Municipalities
- **Network Condition – "G**

PCI Condition State	
VERY GOOD	91 - 100
GOOD	81 - 91
FAIR	65 - 81
POOR	26 - 65
VERY POOR	0 - 26

- **Current Backlog = $14M**

Municipality	Centerline Miles	PCI
Apex	268	86
Fuquay-Varina	184	85
Morrisville	58	82
Holly Springs	170	80
Garner	116	77
Randleman	23	73
Kernersville	101	69
High Point	458	66
Monroe	173	65
Lexington	123	65
Greensboro	1,065	60
Newton	78	59

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- **Very Good & Good: 82.4%**
- **Fair: 11.0%**
- **Poor and Very Poor: 6.6%**

Town Assets

- Town Streets – 3,773,500 SY
- Reconstruction Unit Cost – $60.00/SY
- Roadway Assets – $226M

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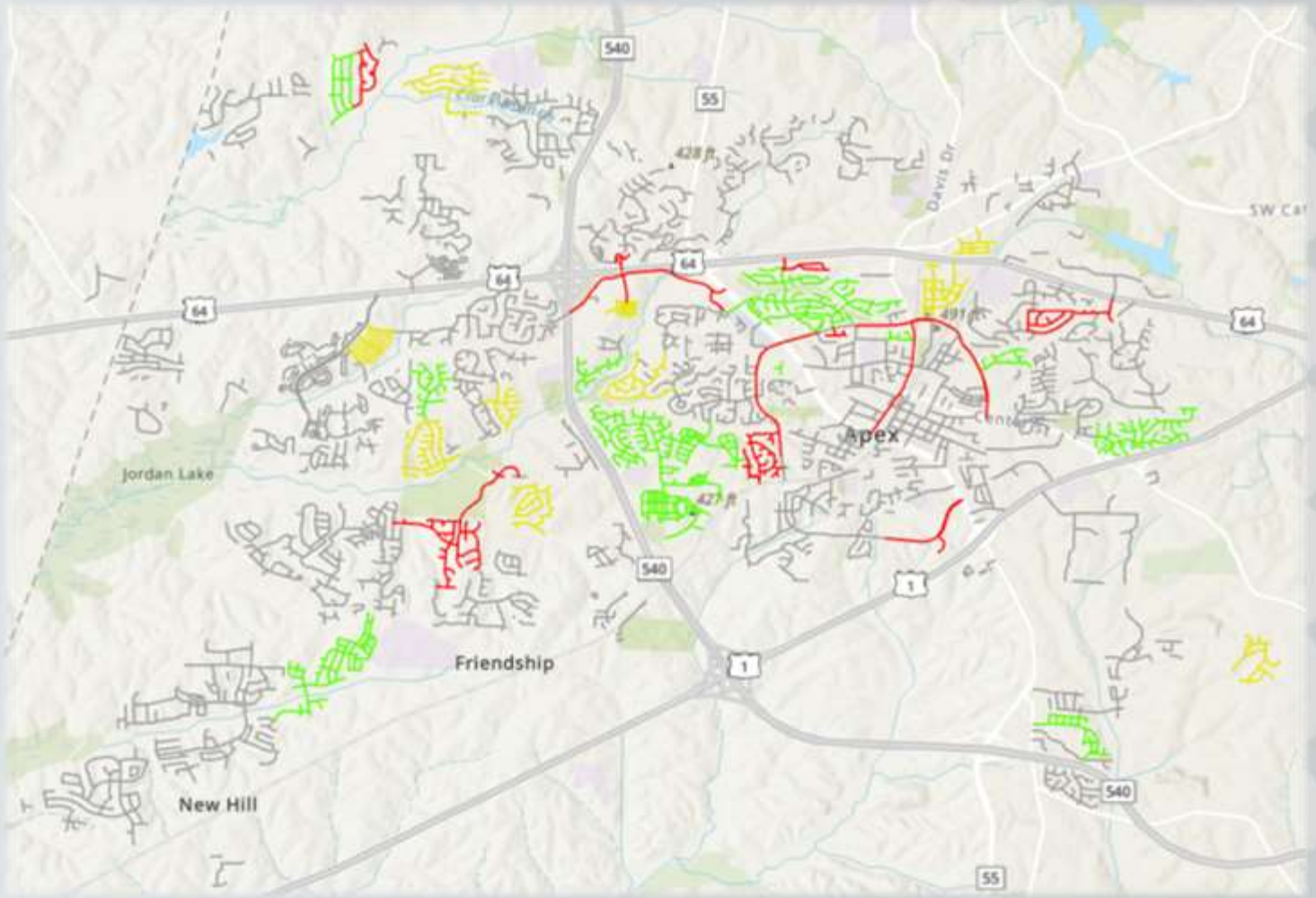
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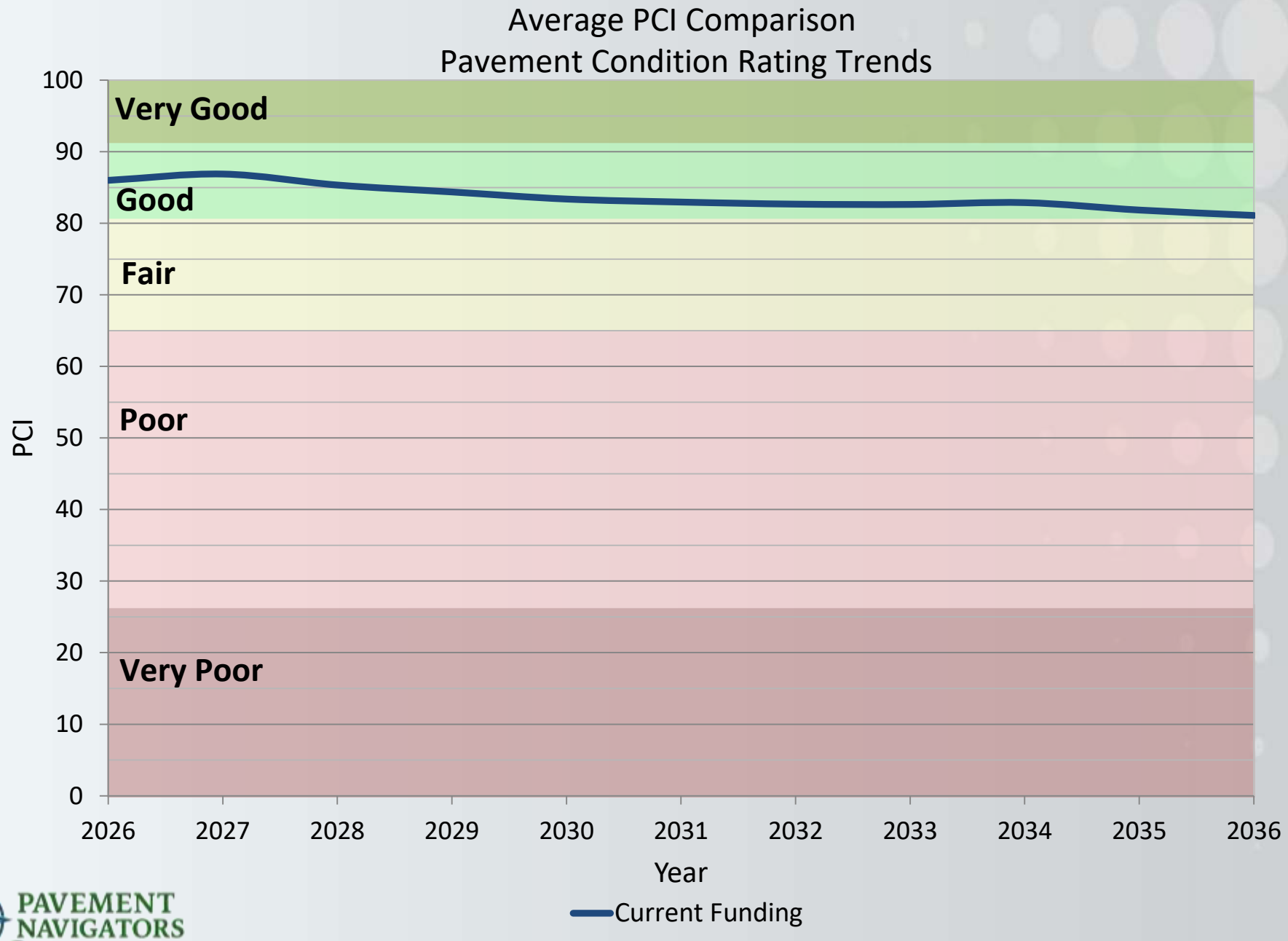


3-Year Plan

- Preliminary Plan
- Grouping by Subdivision
- Treatments (Mile Ratio)
  - Rejuvenators (2) - Green
  - Micro Surfacing (1) - Yellow
  - Rehabilitation (1) – Red
- Matches Strategic



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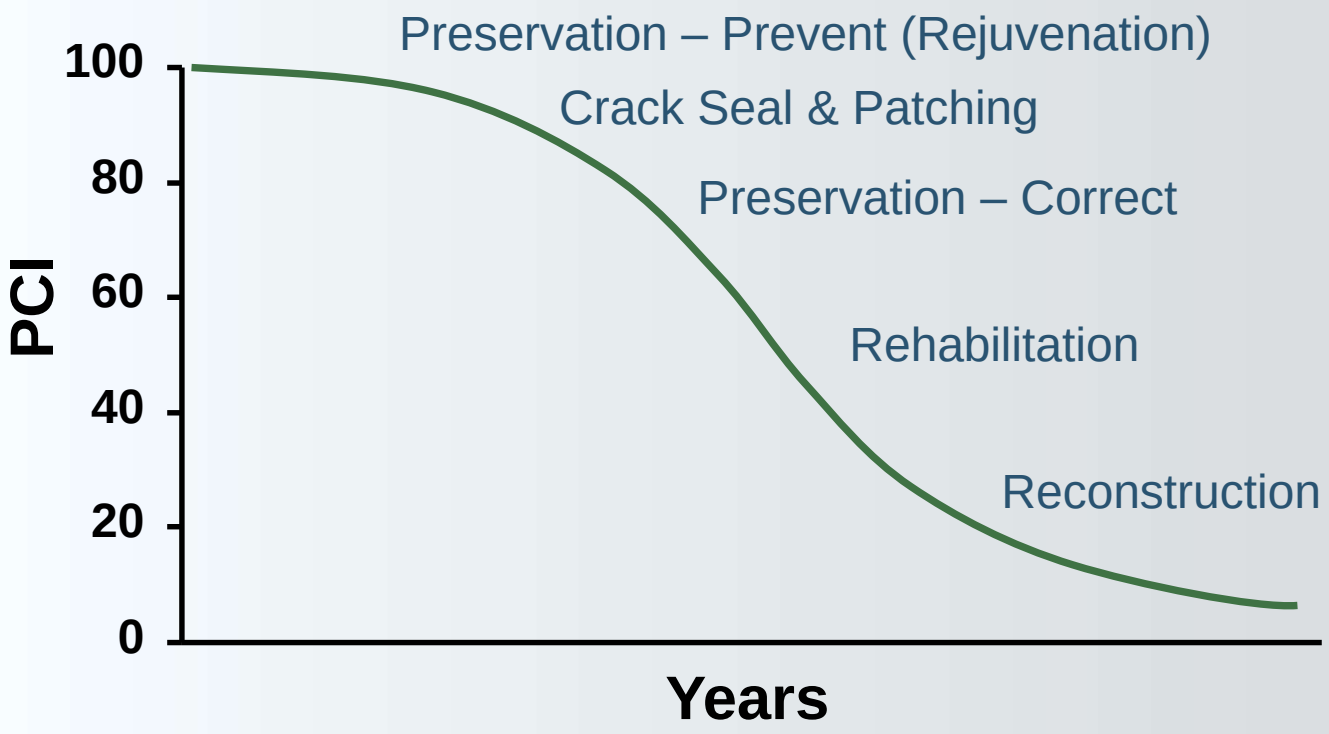
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Repair Activity Selection



PCI Range	Recommended Repair Activity
82 to 100	Preservation - Prevent, Crack Sealing, or Patching
65 to 82	Preservation - Correct
26 to 65	Rehabilitation
0 to 26	Reconstruction

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Rejuvenators



Micro Surfacing



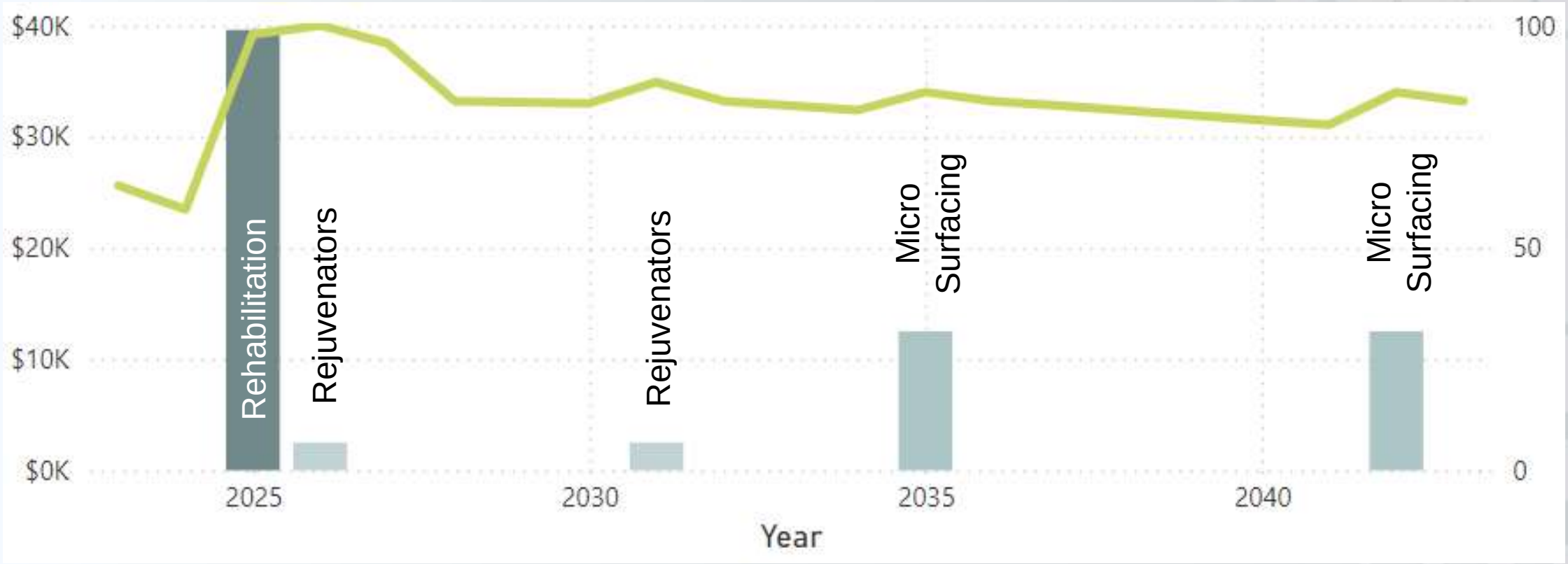
Rehabilitation



Reconstruction (FDR)



Maintenance Toolbox



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Conclusion

- Town Vision/Goals
- Strategic Approach
  - Regular PCSs (FHWA – 2-3 Years)
  - LCM
- Continued Funding
  - Increase as Network Increase
- Sustainable Maintenance Program
  - Rejuvenators
  - Micro Surfacing
  - Rehabilitation
- Maintain Level of Service



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