

CITY OF AUSTIN PUBLIC WORKS

# FY23 Street Service Plan

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PUBLIC WORKS

Well-Built  
Well-Maintained  
Well-Being For All





# AGENDA

- **Public Works Department and Street & Bridge Operations**
- **Why Do We Have a Streets Service Plan?**
- **Service Plan Development**
- **FY23 Streets Service Plan**
- **Conclusion**



# PUBLIC WORKS DEPARTMENT

## MISSION

Build and maintain a better community by delivering services to every corner of Austin.

## SERVICES

- Manage, design, and inspect capital improvement projects
- Maintain the City's network of trails, roadways, and bridges once they are built
- Promote bicycle, pedestrian, safe routes to school, and urban trail programs

# STREET AND BRIDGE OPERATIONS

## ROLE

Manage and maintain public right-of-way infrastructure including streets, bridges, sidewalks, guardrails, trees and vegetation

## SERVICES

- Minor Concrete Repair & Construction
- **Street Preventative Maintenance**
- Right of Way Maintenance (trees + vegetation)
- Bridge Maintenance
- Alley & Roadway Repairs
- Tree Pruning & Trimming
- Sidewalk Services





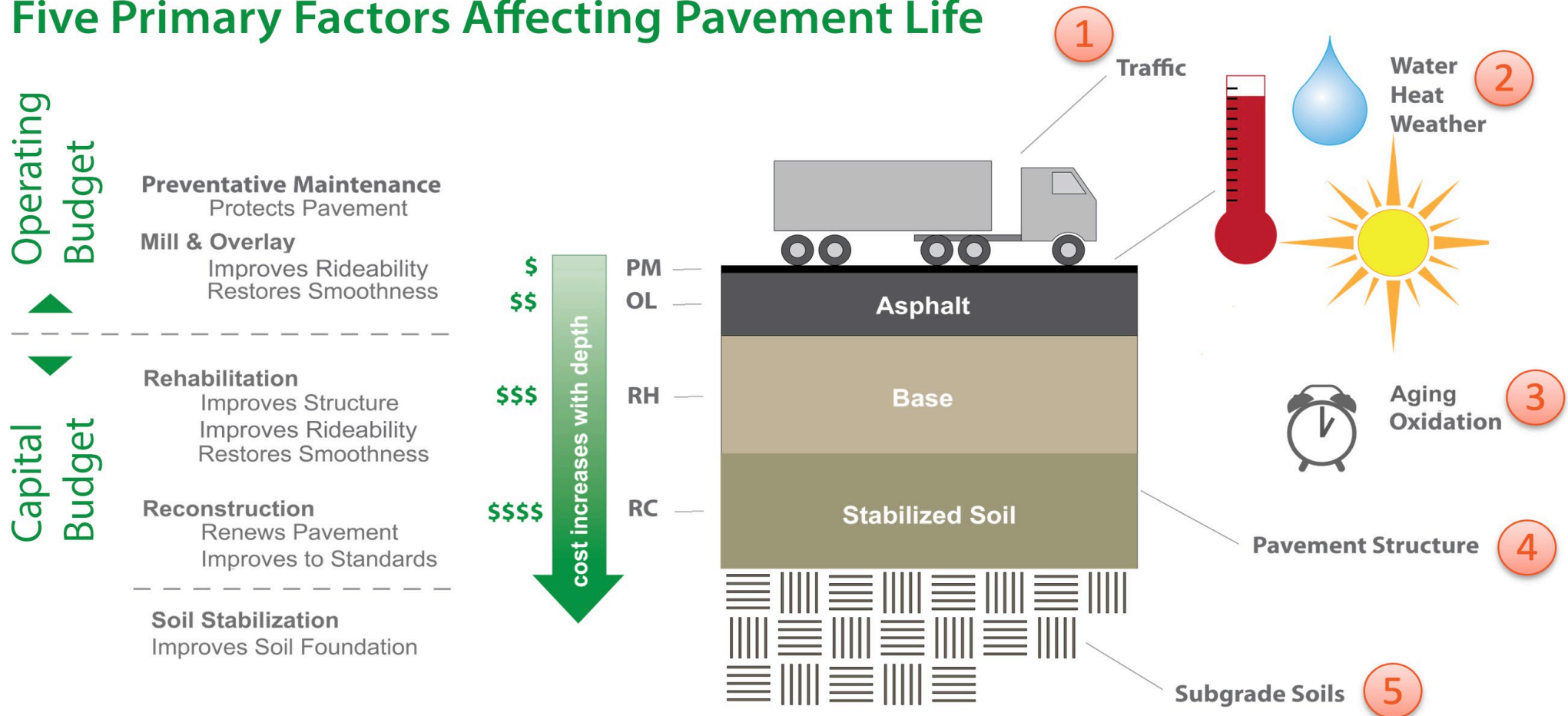
# Why do we do street preventative maintenance?

*Scheduled preventative maintenance helps **prolong the life of streets** by protecting the surface from the effects of aging, cracking, deterioration, and water infiltration.*

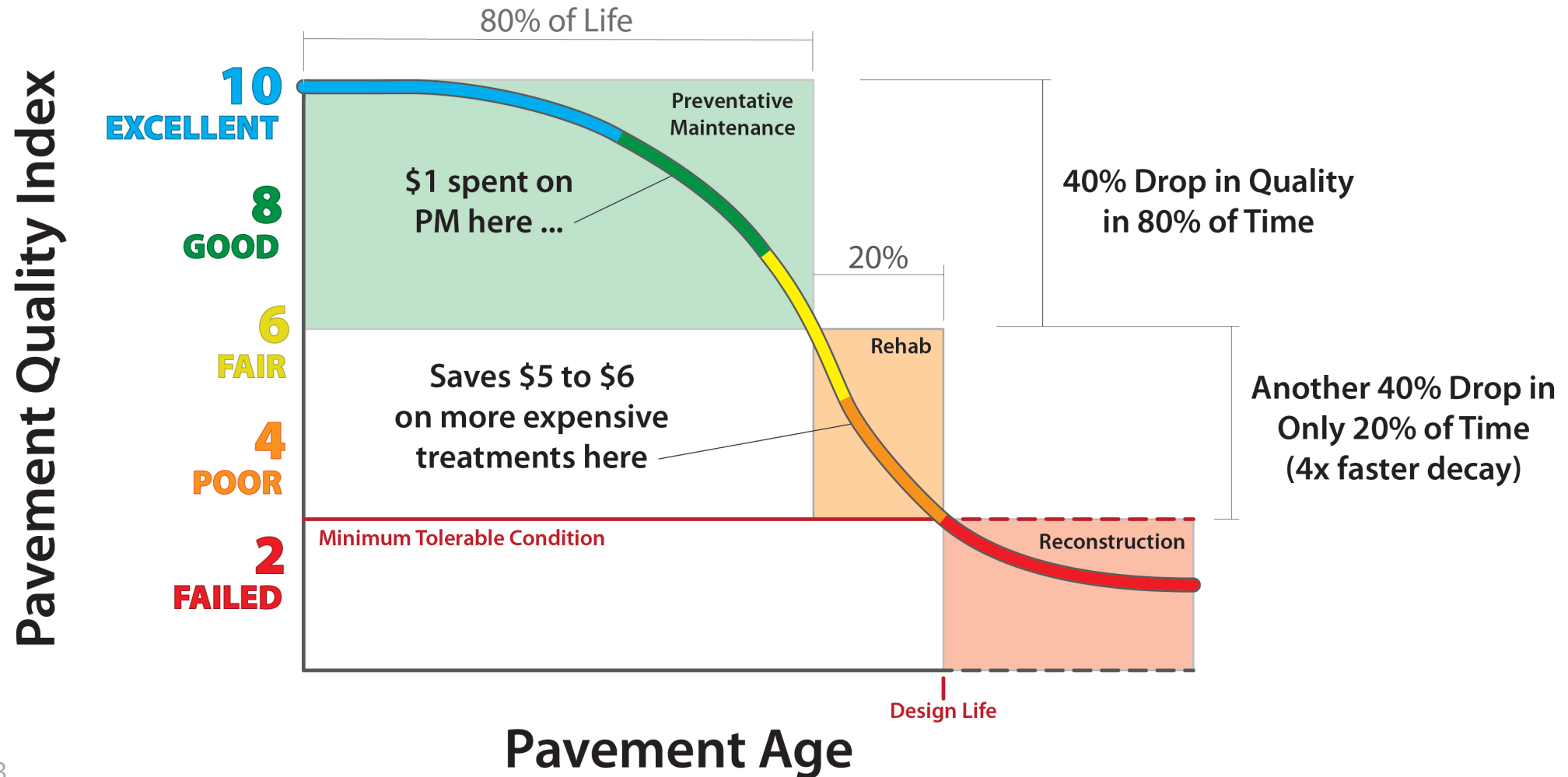
*Preventative maintenance allows us to make **safety updates, add bike lanes, and save time and taxpayer money** by intervening before full reconstruction is needed.*

# Influencing Factors for Pavement Life

## Five Primary Factors Affecting Pavement Life



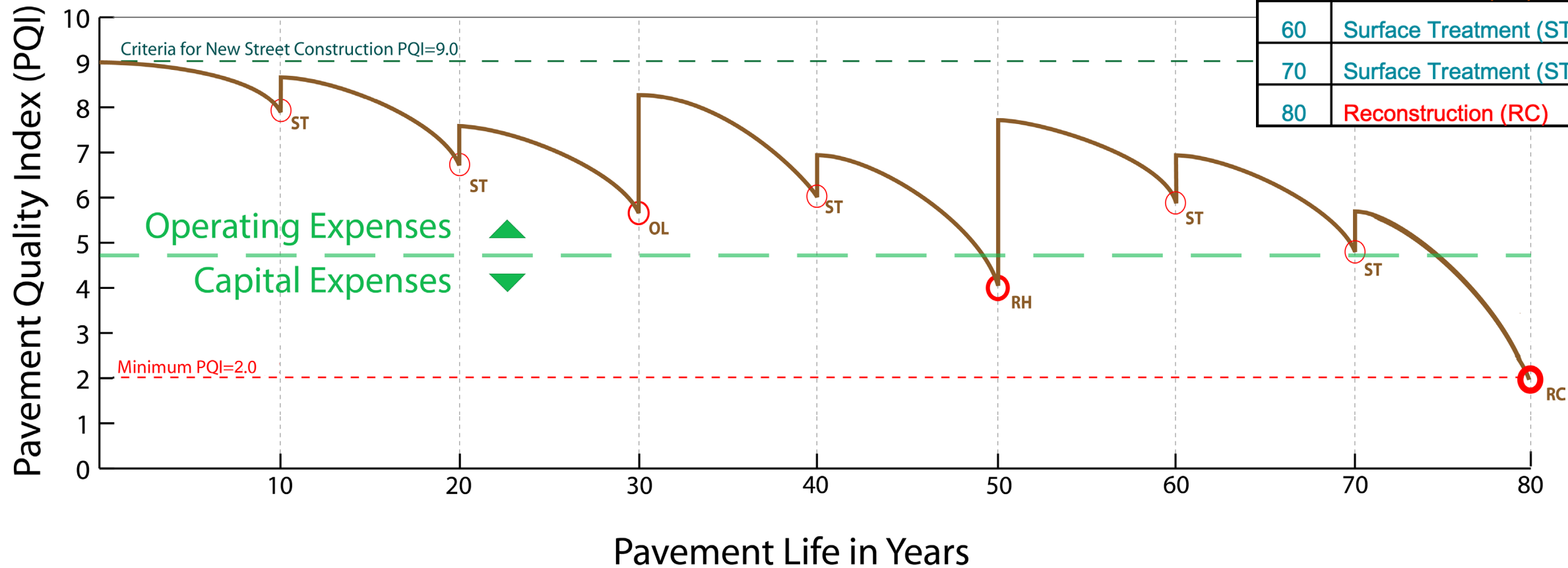
# Preventative Maintenance Cost Savings



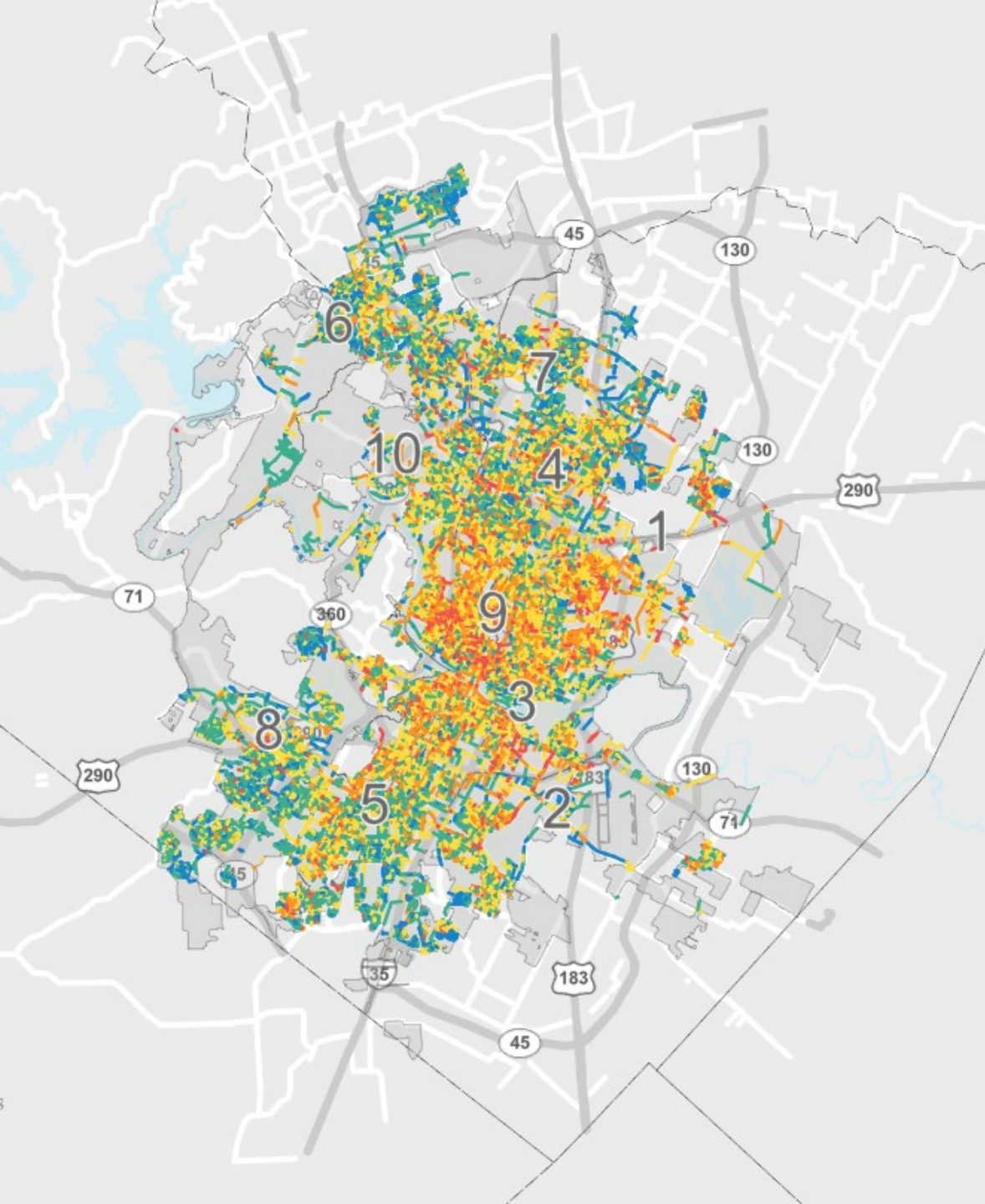
# Pavement Life Cycle

THE RIGHT TREATMENT AT THE RIGHT TIME LEADS TO MAXIMUM STREET LIFE

Year	Treatment
0	Initial Construction (RC)
10	Surface Treatment (ST)
20	Surface Treatment (ST)
30	Standard Overlay (OL)
40	Surface Treatment (ST)
50	Rehabilitation (RH)
60	Surface Treatment (ST)
70	Surface Treatment (ST)
80	Reconstruction (RC)





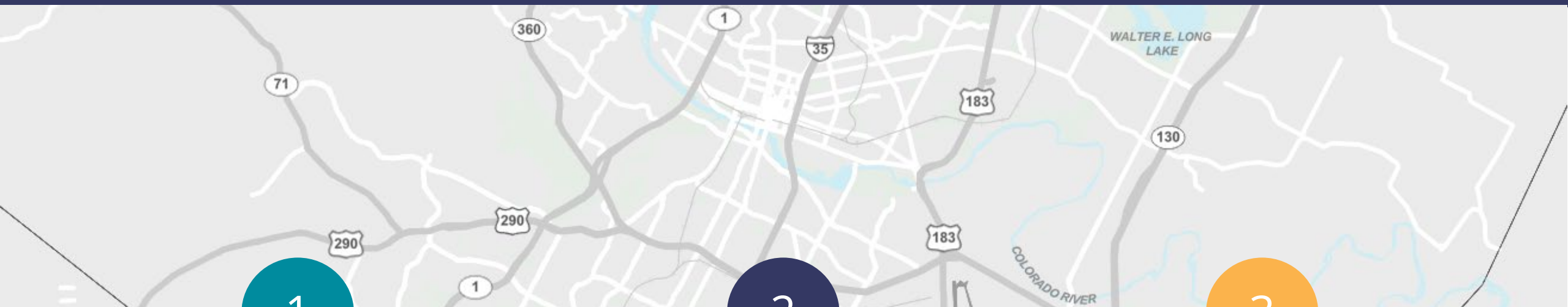


# FY23 Annual Service Plan Development



# How Public Works Plans Maintenance

INCORPORATING EQUITY



1

## We are data-informed.

Public Works uses data to apply the *right* treatments on the *right* streets at the *right* time.

2

## We prioritize equity.

Public Works also considers factors such as community input and historical context.

3

## We are always trying to improve.

Public Works is undergoing a process to discover how we can incorporate equity even more.



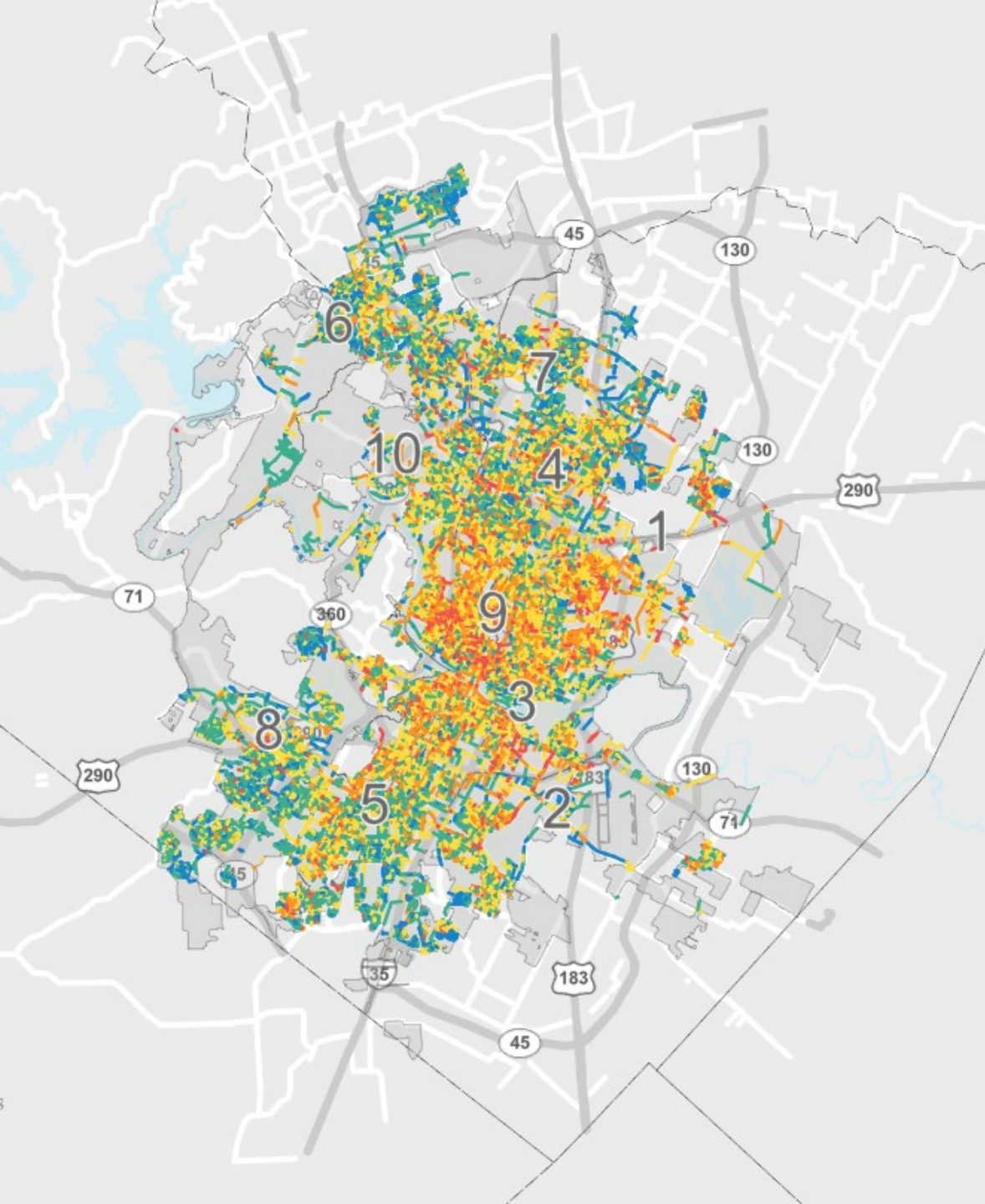
# Annual Service Planning

Each fiscal year, the Public Works Department creates an **Annual Street Service Plan** to help achieve the following goals:

- Perform Preventive Maintenance on approximately 10% of the network each year
- Maintain 80% of street network in Fair to Excellent condition







# Network Condition

## Condition Grades

Blue: A (Excellent)    Orange: D (Poor)  
Green: B (Good)    Red: F (Failed)  
Yellow: C (Fair)

# Austin's Street Network by Grade

AS OF SEPTEMBER 2022



## Grade Meaning

A

**Excellent:** Street should need only preventative maintenance (PM).

B

**Good:** Street should need only preventative maintenance and a few minor spot repairs.

C

**Fair:** Street still preserved by preventative maintenance and more minor spot repairs.

D

**Poor:** Street is in less than desirable condition and has an unsatisfactory ride.

F

**Failed:** Street does not have an acceptable ride even at reduced speeds.

## Lane Miles (as of FY22)



1,287 LM (16%)



2,273 LM (29%)



2,368 LM (30%)



1,270 LM (16%)

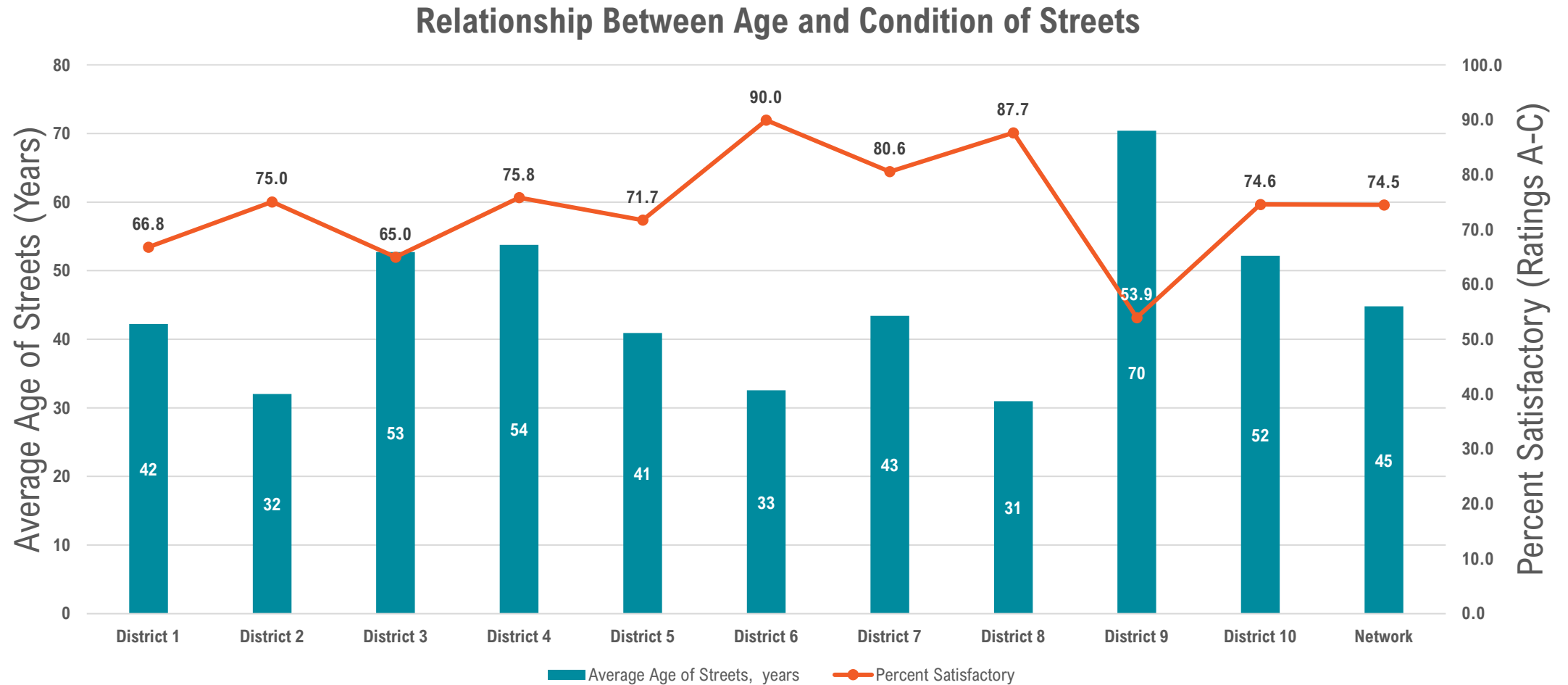


759 LM (9%)



# Street Inventory by Council District

AS OF SEPTEMBER 2022



# Preventative Maintenance Treatments - Terminology



## CRACK SEAL



## FOG SEAL



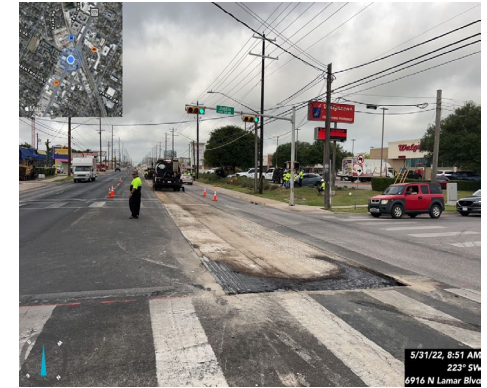
## SEAL COAT



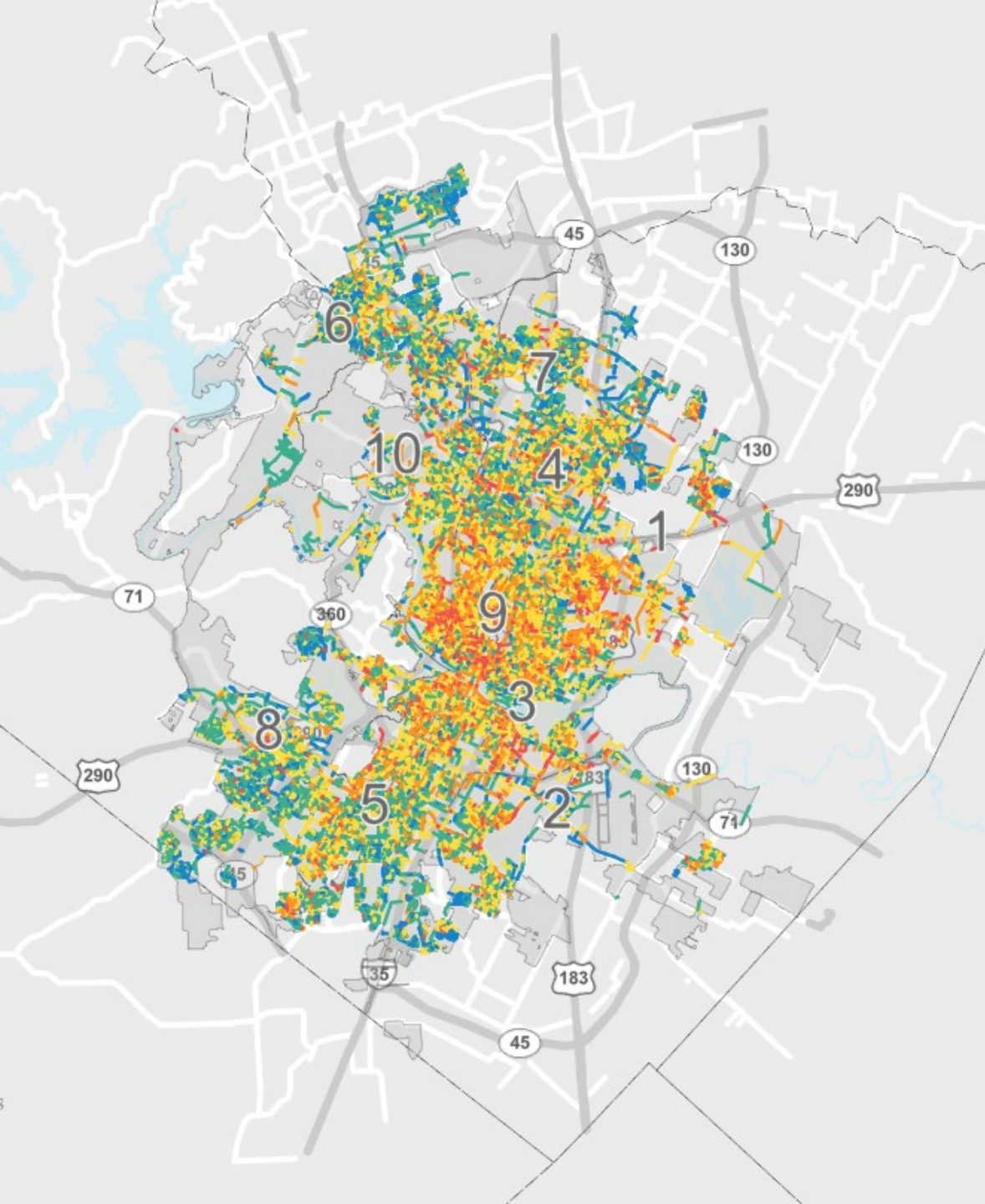
## SLURRY SEAL



## MILL AND OVERLAY





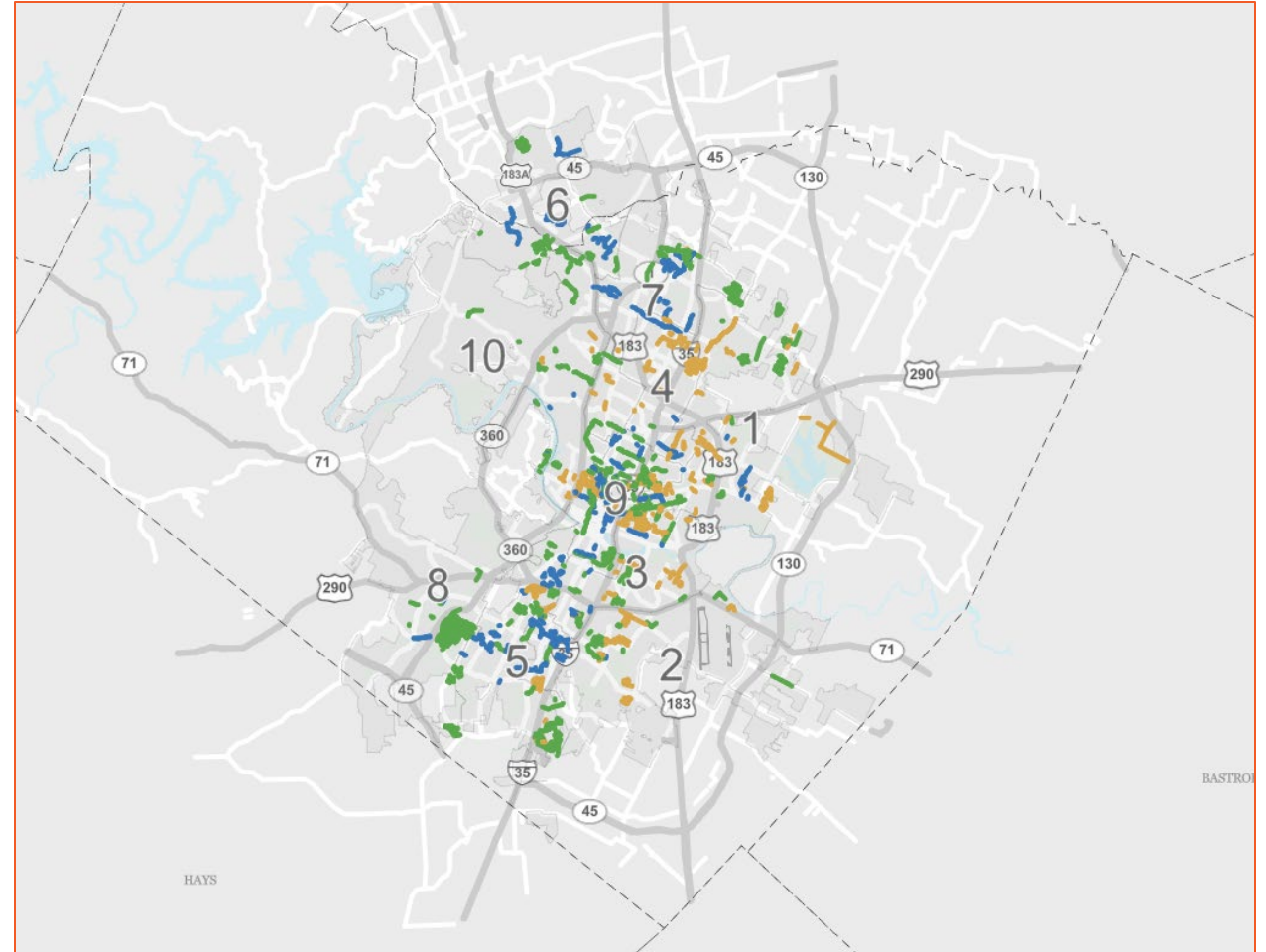


# FY23 Annual Service Plan Overview

# Overall Plan – FY23



Treatment	FY 2023 LMS
Crack Seal	200
Fog Seal	91
Seal Coat (Including Slurry)	305
Overlay	163
<b>TOTAL TREATMENT</b>	<b>758</b>



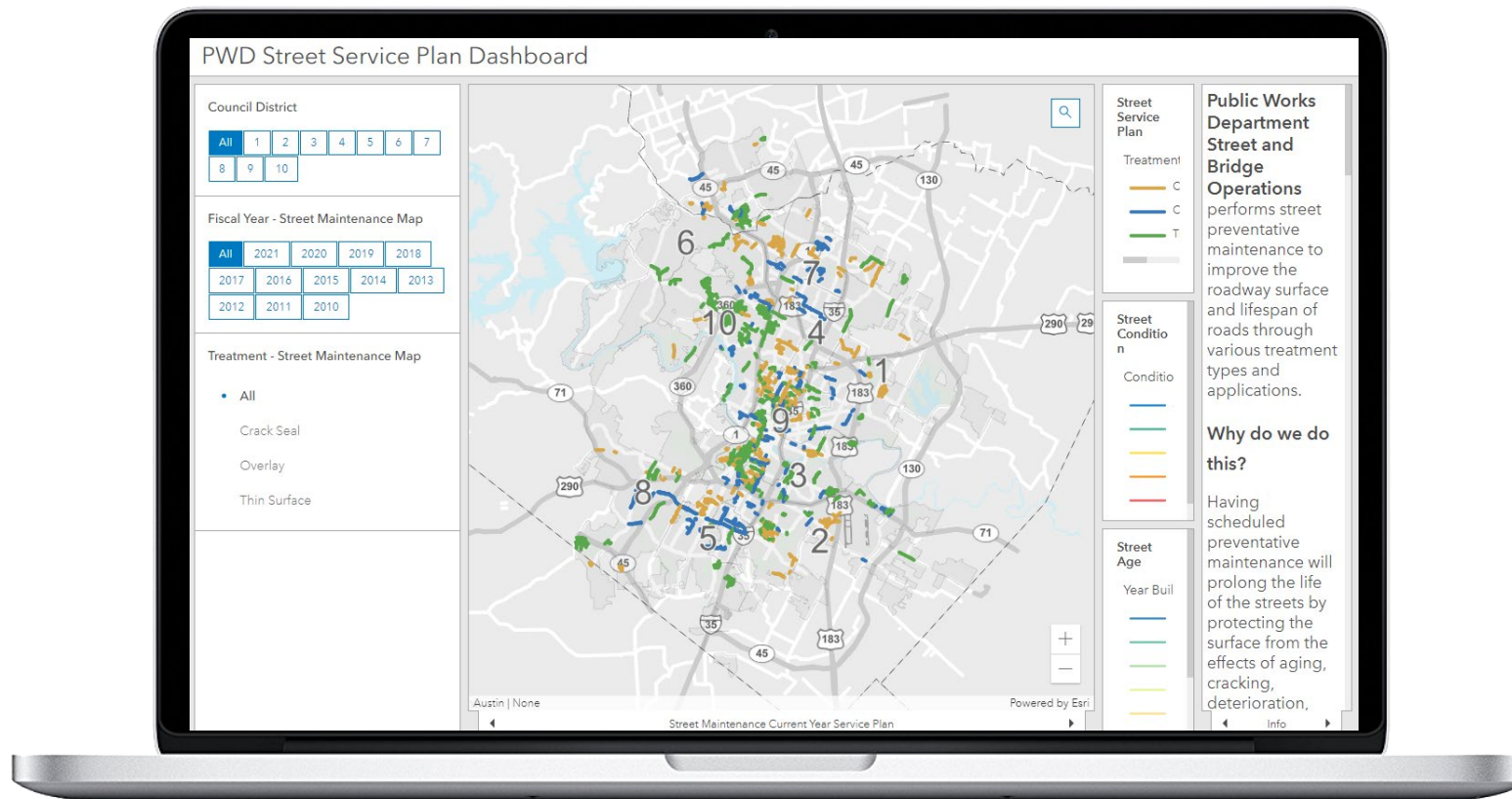


# FY23 Planned Treatment by Council District

Treatment	Lane Miles by Council District										
	1	2	3	4	5	6	7	8	9	10	Total
Crack Seal	83.6	32.2	17.9	32.7	7.0	0.0	2.8	0.0	18.5	5.0	199.6
Fog Seal	0.0	0.0	0.0	0.0	24.9	0.0	0.0	65.8	0.0	0.0	90.7
Seal Coat (Including Slurry)	53.6	26.9	18.3	1.1	30.1	32.9	46.4	14.0	43.9	37.8	304.9
Overlay	15.7	22.5	6.3	11.4	17.7	29.9	28.7	5.2	24.3	1.6	163.3
<b>Total</b>	<b>152.9</b>	<b>81.5</b>	<b>42.5</b>	<b>45.2</b>	<b>79.6</b>	<b>62.8</b>	<b>78.0</b>	<b>84.9</b>	<b>86.6</b>	<b>44.3</b>	<b>758.3</b>

# FY23 Street Service Plan

GIS TOOL



## PWD Street Service Plan Dashboard

For greater transparency, we've developed a [GIS tool](#) that shows street maintenance for the past 10 years, plus the current Street Service Plan.



# District 1 – *Example of GIS Information*

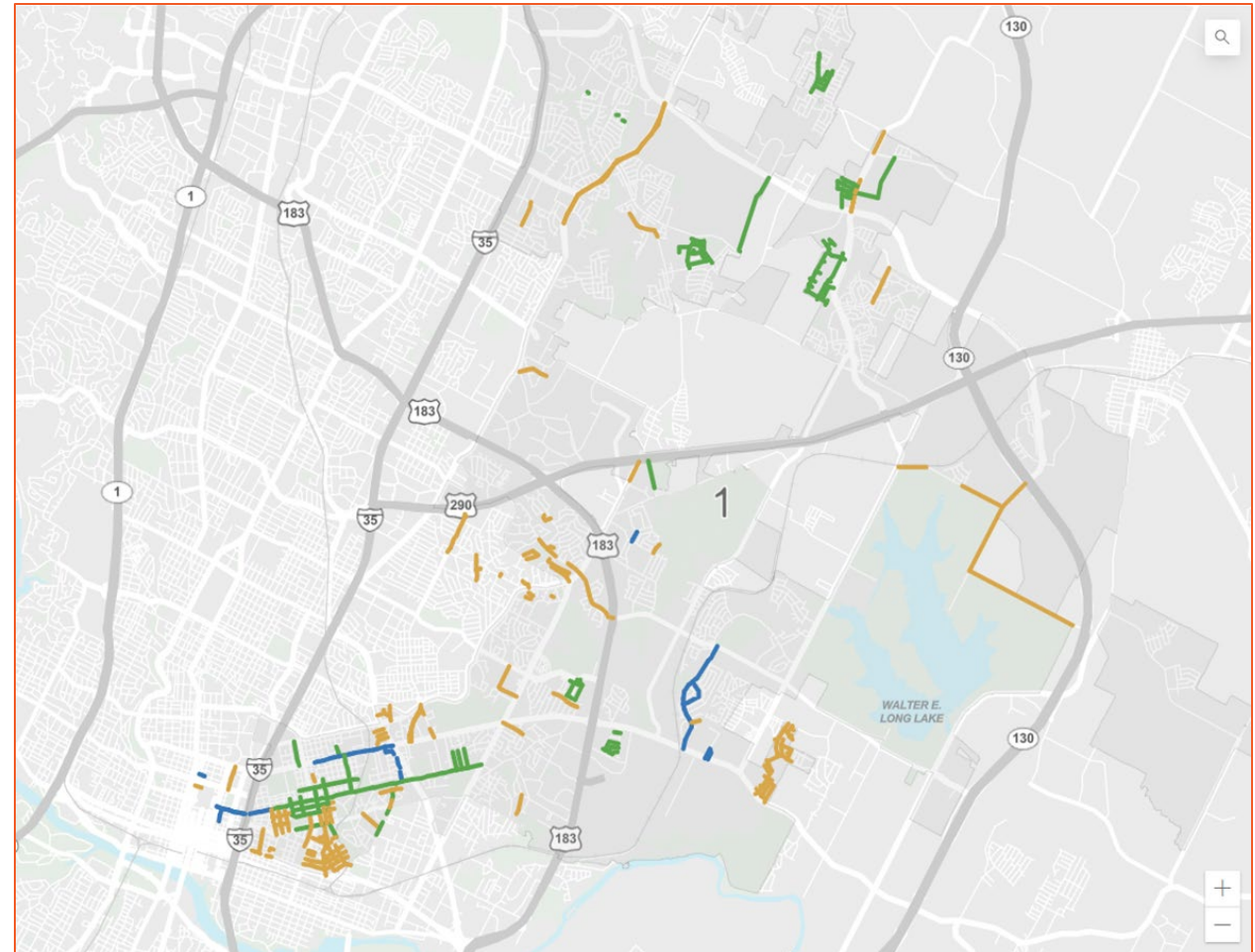


TOTAL LANE MILES	1,004.7
TOTAL PLANNED TREATMENT	<u>152.9</u>
OVERLAY	15.7
CRACK SEAL	83.6
SEAL COAT / SLURRY SEAL	53.6

**FY / Current  
Treatment - Street  
Maintenance**

**Treatment Type**

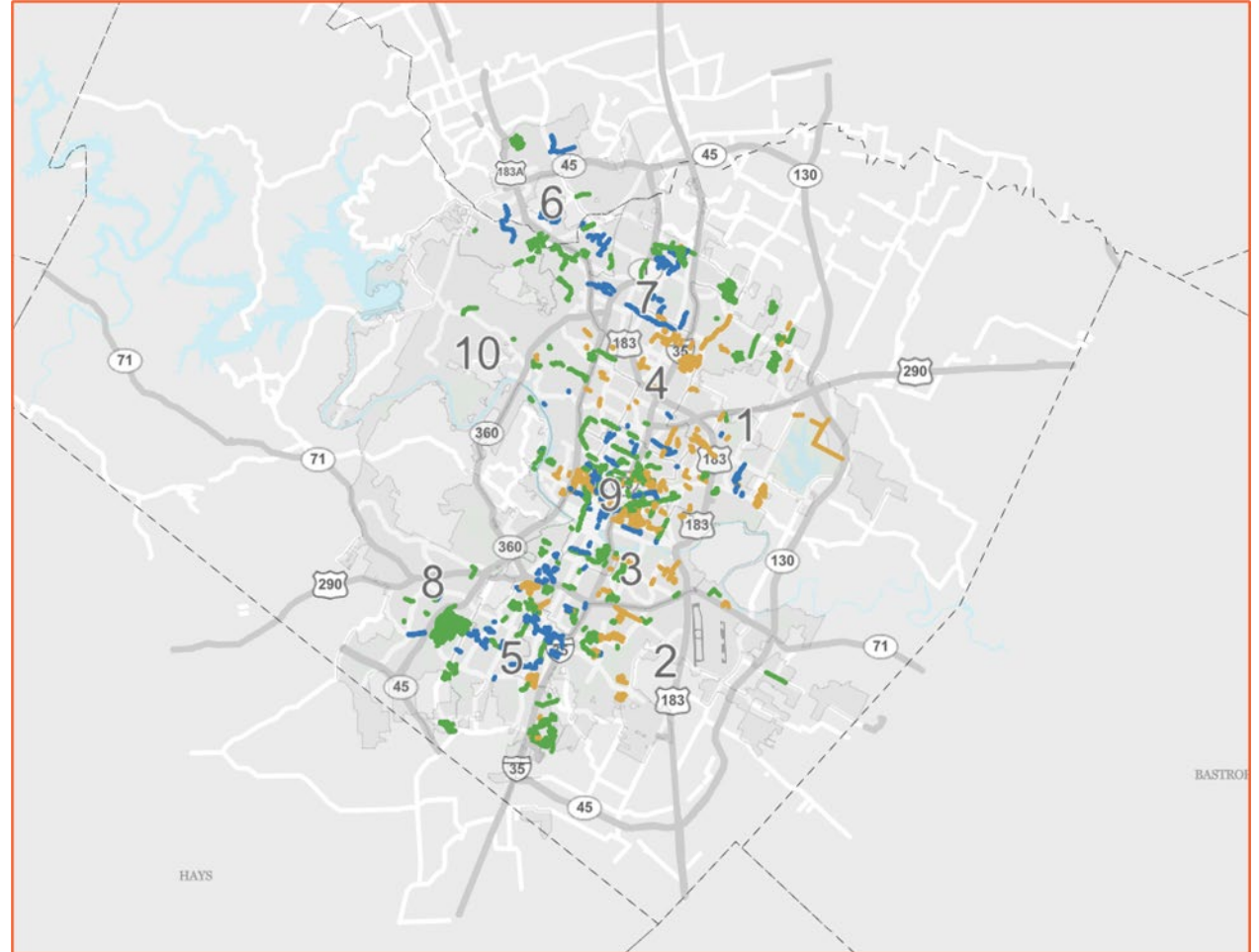
- Crack Seal
- Overlay
- Thin Surface



[PWD Street Service Plan Dashboard \(arcgis.com\)](https://arcgis.com)

# FY23 Plan Execution: Next Steps

- For optimal paving conditions, most of the annual Service Plan maintenance begins in April and continues through September
- PWD will work with the individual District offices to provide more information and explain what is happening in each District and familiarization with the GIS tool
- PWD will return in October to provide an update of accomplished street maintenance







# Thank you for your time today!

If you have any questions or concerns,  
please feel free to **contact us**.



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