



CITY ROAD CONDITION AND PAVEMENT MANAGEMENT PROGRAM UPDATE

APRIL 18, 2023

Agenda

- What is PTAP?
- What is PCI?
- City Network Summary
- Current Pavement Condition Categories
- PCI Comparisons for Bay Area Jurisdictions
- Funding & Treatments
- Funding Scenarios

What is PTAP?

- PTAP is a regional program in the Bay Area to update and assess overall pavement condition –

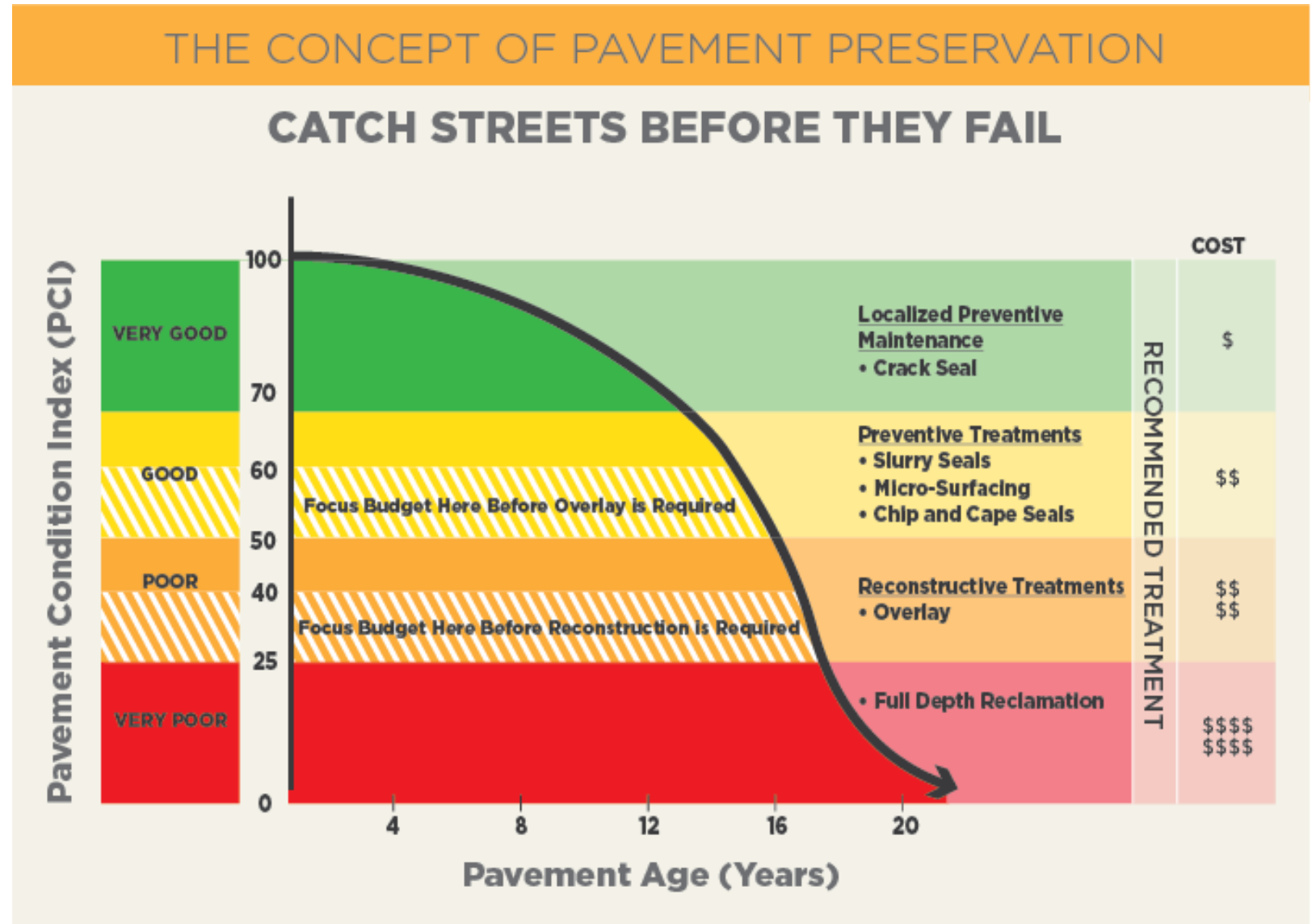
Pavement Management Technical Assistance Program

- Metropolitan Transportation Commission (MTC) offers grants thru PTAP to provide technical and financial assistance to cities & counties for a Pavement Management System (PMS)
- Every two years, the City must have a PMS certified by MTC to be eligible for various federal street maintenance grants
- PTAP steps:
 - Grant match for P-TAP Round 22 for Pavement Management System Update
 - Consultant assigned to inspect entire street network system
 - Enter inspection data into a pavement management database – StreetSaver
 - Generate Pavement Condition Index (PCI)
 - Generate pavement treatment recommendations based on various funding scenarios

What is PCI?

Pavement Condition Index

- Numerical Rating from 0 – 100
 - 0 – failed street
 - 100 – new pavement
- PCI is not static
- Road is deteriorating as we speak
- City's overall PCI: 54



PCI Examples



STREETSAVER – Dashboard, 2023

City Network Summary

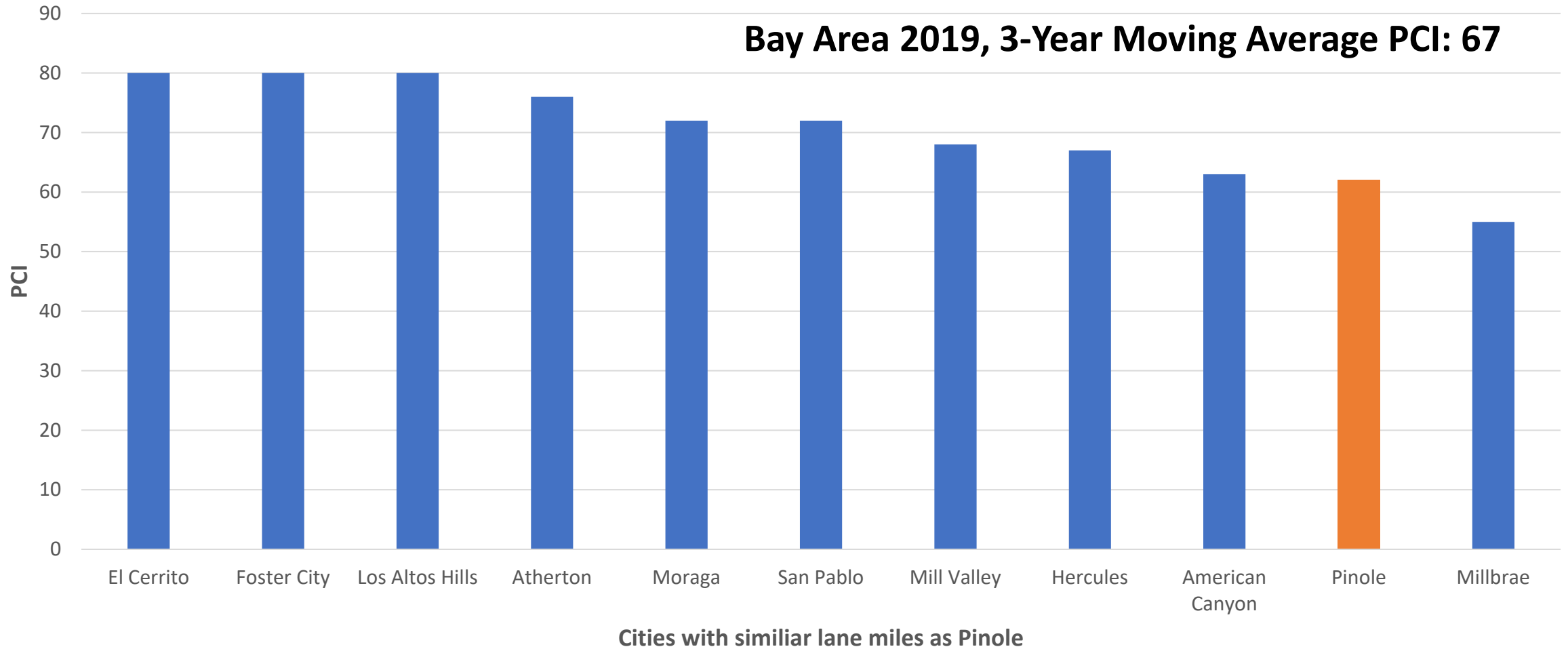
Functional Classification	Total Sections	Total Center Miles	Total Lane Miles	Total Area (SF)	Pavement Condition Index (PCI)
Arterial	25	24.97	24.97	2,113,863	58
Collector	23	7.3	18.75	1,655,413	51
Residential/Local	302	37.46	74.91	6,526,932	56
	350	52.02	118.63	10,296,208	

- **Arterial** – roadway with high traffic volumes and frequently the route of choice for transit and trucks, and primarily serves through traffic, usually on a continuous route
- **Collector** – “collect” traffic from local roads and connect to arterial roadways; often provide traffic circulation within residential neighborhoods, commercial, and industrial districts
- **Residential/Local** – provide limited mobility and are primary access for residential areas, businesses, and other local areas

Current Pavement Condition Categories

Current Condition Categories	Arterial	Collector	Residential	Network
Condition I - Good to Excellent (PCI 70 - 100)	9.1%	6.4%	22.5%	37.9%
Condition II/III - At Risk to Fair (PCI 50 - 69)	4.2%	2.4%	16.1%	22.7%
Condition IV - Poor (PCI 25 - 49)	5.9%	2.8%	13.8%	22.5%
Condition V - Failed to Very Poor (PCI 0 - 24)	1.3%	4.6%	11.0%	16.9%
Total	20.5%	16.2%	63.4%	100.0%

PCI for Bay Area Jurisdictions, 2019



Funding & Treatments

CURRENT FUNDING

- Measure S 2014 - \$500,000
- Senate Bill 1 (SB-1) also known as Gas Tax - \$350,000 (estimated)
- Grants – varies

TREATMENTS

PCI of Road	Recommended Treatment	Cost per square yard
70 or higher	Minor Patching, cracking sealing, slurry seal	\$5 - \$10
50 - 70	Cape Seal or thin overlay	\$20-\$40
25 or lower	Replacement	\$130+

STREETSAVER – MTC Funding Scenarios

- Scenario 1 – Current Budget
- Scenario 2 – Constant PCI
- Scenario 3 – Plus 5 PCI Increase
- Scenario 4 – Optimal PCI Conditions
- Scenario 5 – Unfunded Scenario

SCENARIO	RESULT in 5 years	COST (2022 dollars)
Maintain current budget	PCI decrease from 57 – 52	\$1,000,000
Increase PCI	Entire network PCI in the optimal range of 79-84	\$55,000,000


STREETSAVER – Other Funding Scenarios

SCENARIO / YEAR	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
Increase PCI by 3 points each year. Achieve and Maintain 75	\$3.4 M	\$6.6 M	\$10.6 M	\$10.7 M	\$5.5 M	\$7.8 M	\$3.2 M	\$1.5 M	\$1.4 M	\$1.6 M	\$51.8 Million
Achieve Arterial + Collector 80 and Residential at 70 ASAP and maintain	\$22.9 M	\$7 M	\$4.4 M	\$1.7 M	\$2.2 M	\$2.5 M	\$4.7 M	\$0.8 M	\$1 M	\$1.2 M	\$47.9 Million
Increase PCI by 3 points each year. Achieve Arterial and Collector 75 and Residential 70	\$2.4 M	\$7.3 M	\$8.7 M	\$6.8 M	\$8.6 M	\$7 M	\$3 M	\$4.7 M	\$1.9 M	\$1.1 M	\$51 Million

Note: Scenario is run with 2022 as the base year

STRATEGY GOING FORWARD

- Public Engagement and obtain input
- Run various funding need scenarios
- Use the need to develop long-term financial plan



THANK YOU &
Q/A