

The background of the slide is a close-up photograph of a cracked asphalt surface. The cracks are irregular and run in various directions, creating a textured, grid-like pattern across the entire image. The color of the asphalt is a dark, mottled grey.

Fresno City Council WORKSHOP Street Infrastructure

**Public Works Department
April 8, 2021**

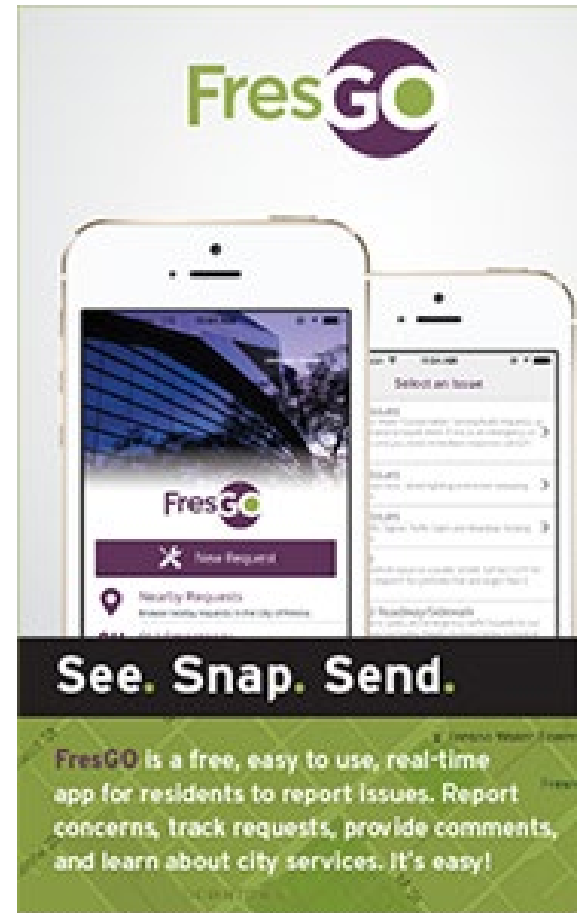
STREET INFRASTRUCTURE WORKSHOP TOPICS

- **Inspection and Assessment of Needs**
- **Types of Service Requests**
- **Estimated Needs**
- **Funding Sources**
- **Formula-Based Dollars**
- **Competitive Grants**
- **Project Prioritization**
- **Pavement Life Cycle, Best Value & Treatments**
- **Street Tree Program**
- **Community Facilities Districts**

STREET INFRASTRUCTURE

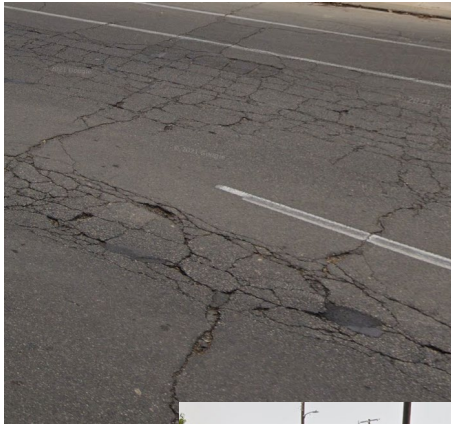
Inspection and Assessment of Needs

- **FresGO and 311 Calls**
- **Constituent requests**
- **Council District requests**
- **Staff inspections**
- **Citywide assessments**
 - **Urban forest tree inventory**
 - **Pavement management update**



STREET INFRASTRUCTURE

Types of Service Requests



STREET INFRASTRUCTURE

Inspection and Assessment of Needs

- **2,682 open service requests for curb & sidewalk repairs**
- **1,747 open service requests for street trees (6 month backlog)**
- **Majority of requests come from neighborhoods with far more unreported locations with similar needs**



STREET INFRASTRUCTURE

Inspection and Assessment of Needs

- **With limited resources, address immediate safety issues (i.e. fill potholes, patch sidewalk, remove tree limbs of concern)**
- **Mitigate risk**
- **Plan comprehensive neighborhood projects for future fiscal years**

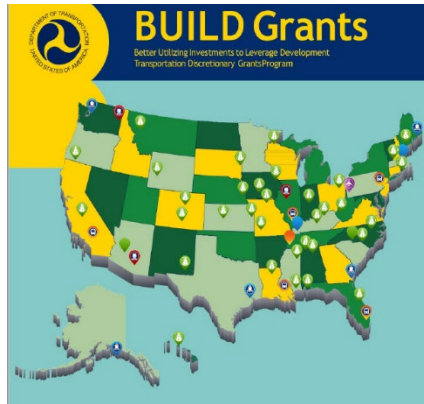


STREET INFRASTRUCTURE Assessment of Needs

- **Pavement – last estimated at >\$600 million (updating 3,700 lane-miles of pavement condition assessments this year)**
- **Urban forest tree inventory – 80% complete, anticipating \$1.5 to 2 million of annual needs for proactive tree trimming**
- **Tree-damaged curbs, gutter & sidewalks > \$200 million**
- **Missing, planned sidewalks - \$365 million identified in 2017 Active Transportation Plan**
- **Unfunded intersections meeting traffic signal warrants - \$25 million**

STREET INFRASTRUCTURE 2017 ATP COST ESTIMATES

Cost Estimates by Priority				
Type	High	Medium	Low	Total
Bikeways ¹	\$89,796,200	\$264,000,000	\$602,000,000	\$955,796,200
Sidewalks	\$24,948,000	94,000,000	\$247,000,000	\$365,948,000
Total	\$114,744,200	\$358,000,000	\$849,000,000	\$1,321,744,200
¹ = includes trails				



Gas Tax



STREET INFRASTRUCTURE Funding



CDBG

STREET INFRASTRUCTURE GAS TAX FUNDING

Three funds combining to total ~\$12.9 million annually

- **Original Gas Tax**
- **Proposition 111 Special Gas Tax**
- **ABx86 Gas Tax**
- **Fully consumed by operations of basic programs**
 - **Traffic Signal & Street Lighting (TSSL) maintenance**
 - **TSSL power bills**
 - **Traffic sign replacements**
 - **Repainting of pavement markings and striping**
 - **Potholes**
 - **Concrete strike team**
 - **Bridge repair**
 - **Emergency street repair**
 - **Fleet replacement & repair**
 - **Facilities**

STREET INFRASTRUCTURE Funding Sources

NEIGHBORHOOD INFRASTRUCTURE FUNDING

- **CDBG**
- **SB1**
- **Measure C (Street Maintenance Subprogram)**
- **General Fund (One-Time Appropriations)**

MAJOR STREETS (Reconstruction, Traffic Signals, Complete Streets)

- **SB1**
- **Measure C (Street Maintenance & Bike Lane Subprograms)**
- **Federal Transportation Grants (STBG, CMAQ)**
- **Highway Safety Improvement Program (HSIP)**
- **Active Transportation Program Grants**

STREET INFRASTRUCTURE GRANT ACTIVITY (2015-2020)

Public Works Department

	Awarded	Pending	Not Awarded
Number of Applications	103	0	23
Funds	\$115,136,850	\$1,191,200	\$27,247,335
Total Funds Requested	\$142,384,185		
Success Rate	82%		

Strategies:

- **Align greatest needs with corresponding grant opportunities to maximize our success**
- **Leverage local dollars with grant funding for maximum community benefit**
- **Utilize local dollars for needs that are not grant funded**

STREET INFRASTRUCTURE PROJECT PRIORITIZATION

Older neighborhoods – specifically older infrastructure

Tree-damaged concrete

- **Curb & gutter – drainage, mitigate standing water**
- **Sidewalks – schools, public facilities, complete neighborhood projects**

Traffic signals, sidewalks and safety improvements

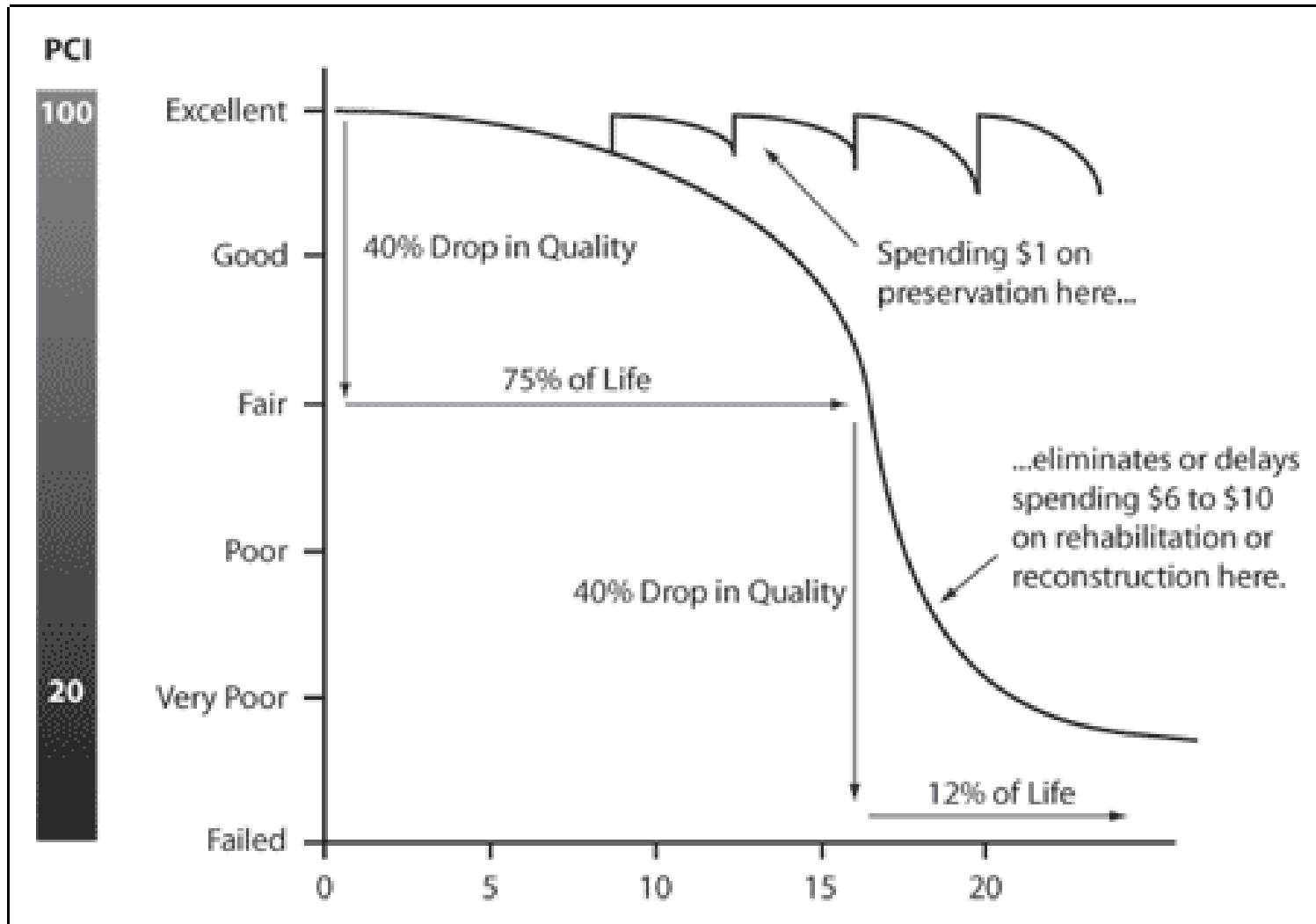
- **Safe Routes to Schools**
- **Complete Streets Policy**
- **Correctable accidents**
- **Volumes**

Pavement repairs

- **Roadway safety**
- **Best value with limited resources**

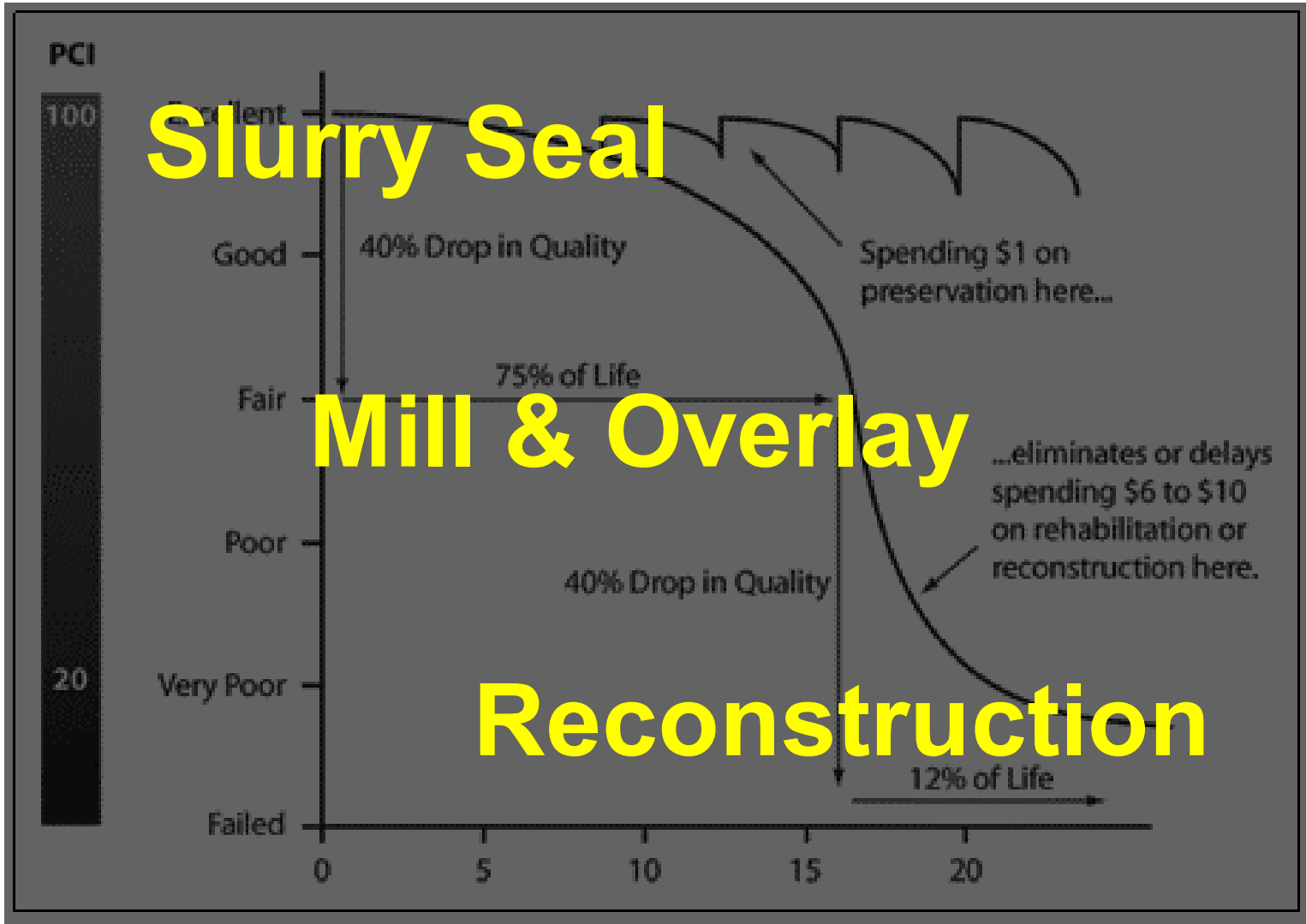
Tree Trimming – reduce risk, improve health, beautify neighborhoods

STREET INFRASTRUCTURE PAVEMENT LIFE CYCLE



Source: US DOT, FHWA

STREET INFRASTRUCTURE PAVEMENT TREATMENTS



Source: US DOT, FHWA

STREET INFRASTRUCTURE SB1 FUNDING



Annual revenue of approximately \$10 million

- **Eligible for street rehabilitation**
- **Complete streets**
- **Traffic control devices**

Requires Council to adopt a separate resolution each fiscal year adopting a list of SB1 projects.

Funds two full-time concrete crews, maintenance paving, and capital improvement projects.

STREET INFRASTRUCTURE STREET TREE PROGRAM

Two tree crews

- **Emergency response**
- **Reactive maintenance**

Vendor services for geobase tree trimming

- **Dependent upon budget appropriations**
- **Trim cycle has varied accordingly**
- **Optimal trim cycle of 7 year frequency**



STREET INFRASTRUCTURE NEW DEVELOPMENT – HOA / CFD MODEL

- **All new development is required to form a private Homeowners Association or annex to the City's Community Facilities District**
- **Covers pavement, concrete repairs, irrigation water bills, landscape maintenance including pocket parks and trails, tree trimming, street lighting repair and power bills.**
- **Future reserve and replacement is covered.**
- **Includes escalators for inflation**
- **Possible for existing neighborhoods with a special voter election and 2/3 majority in support**
- **Annual revenue of \$5.3 million and growing**

STREET INFRASTRUCTURE PUBLIC WORKS CFD ENHANCEMENT CREW



The background of the slide is a close-up photograph of a cracked asphalt surface, showing numerous small, irregular cracks and some discoloration.

Fresno City Council WORKSHOP Street Infrastructure

Questions & Discussion