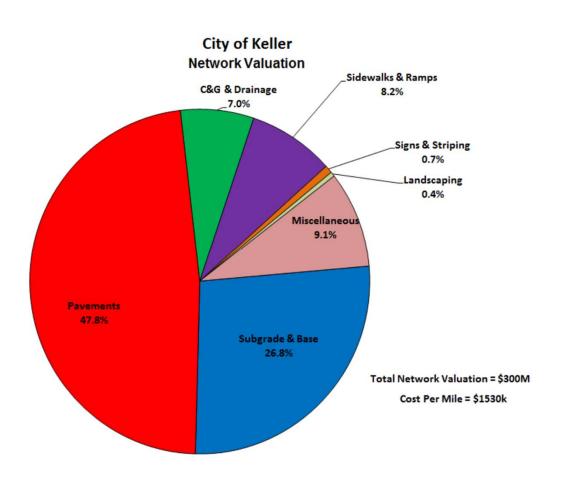
# City of KELLER

# Citywide Street Condition Inventory Results and 5 Yr. Road Maintenance Priorities



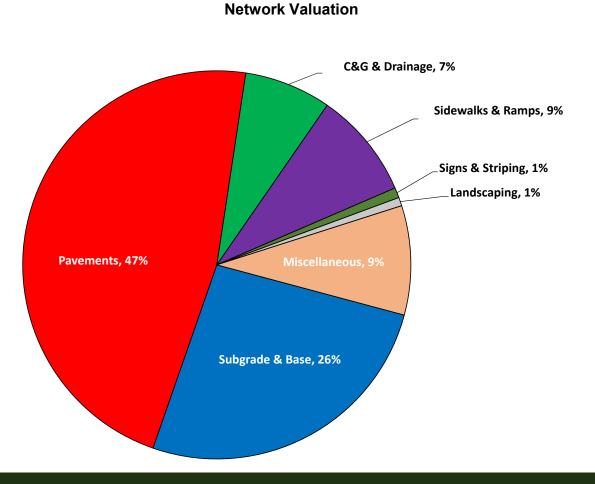
Alonzo Liñán, PE, PTOE Director of Public Works April 6, 2021

#### **2015 Network Valuation**



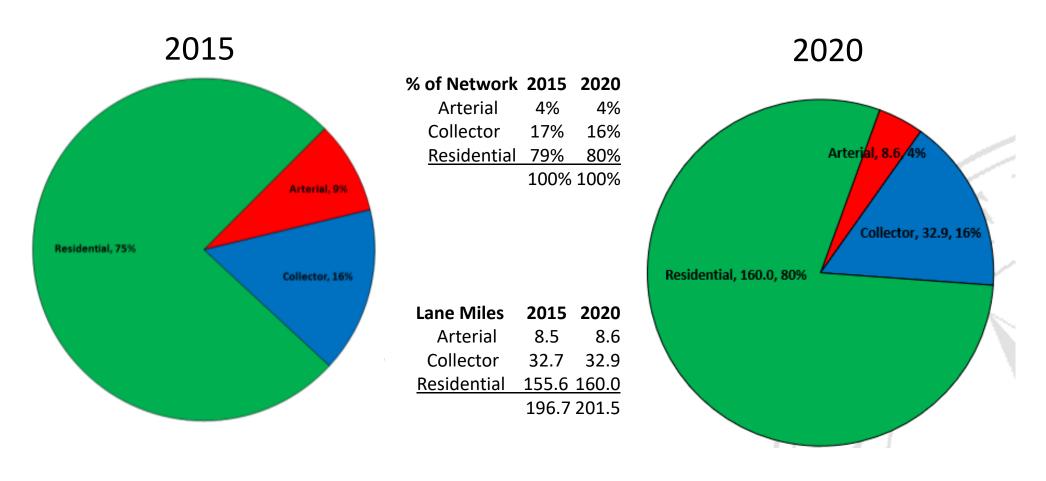
196.7 miles of roadways ~\$301M in paved network

## **2020 Network Valuation**

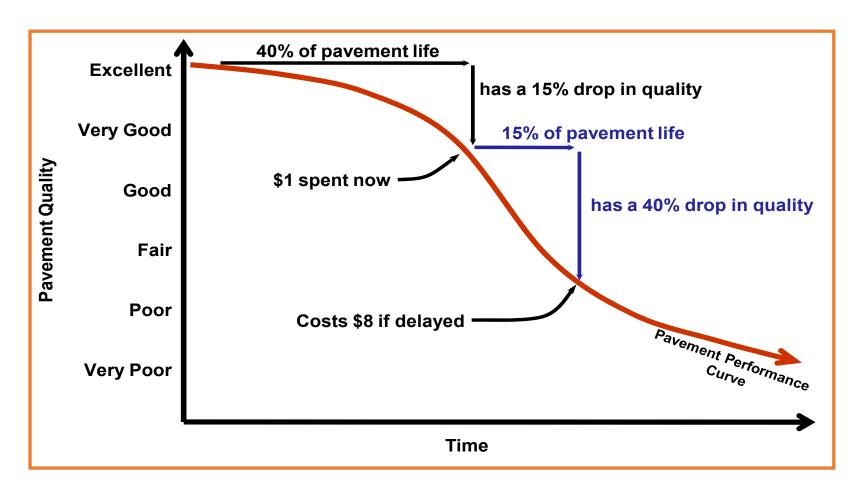


201.5 miles of roadways ~ \$340M in paved network

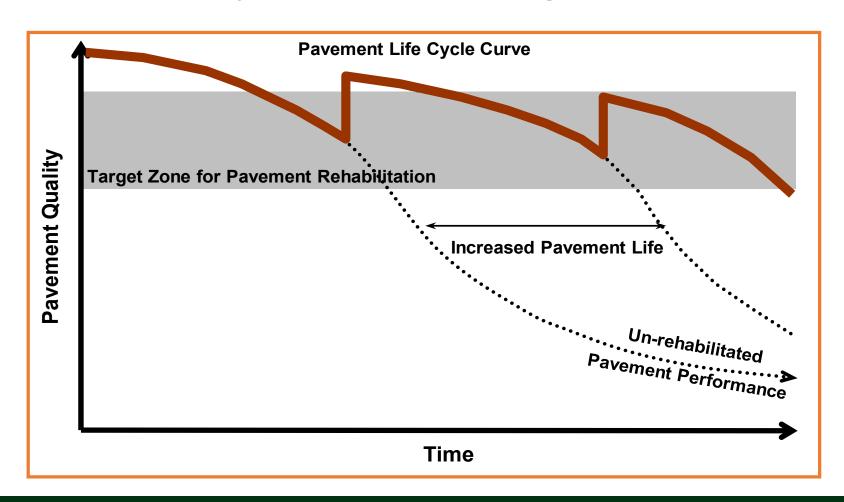
#### **Functional Classification of Roads**



# Why do Pavement Management?



# Why do Pavement Management?



# **Pavement Management System**



#### **Pavement Condition Data Collection**















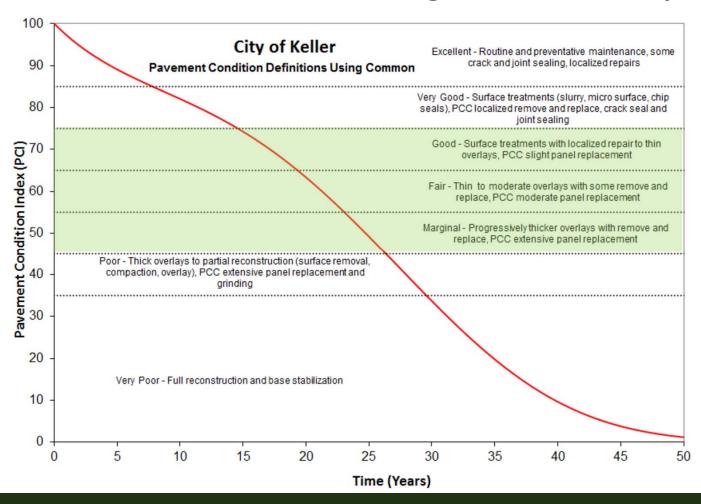






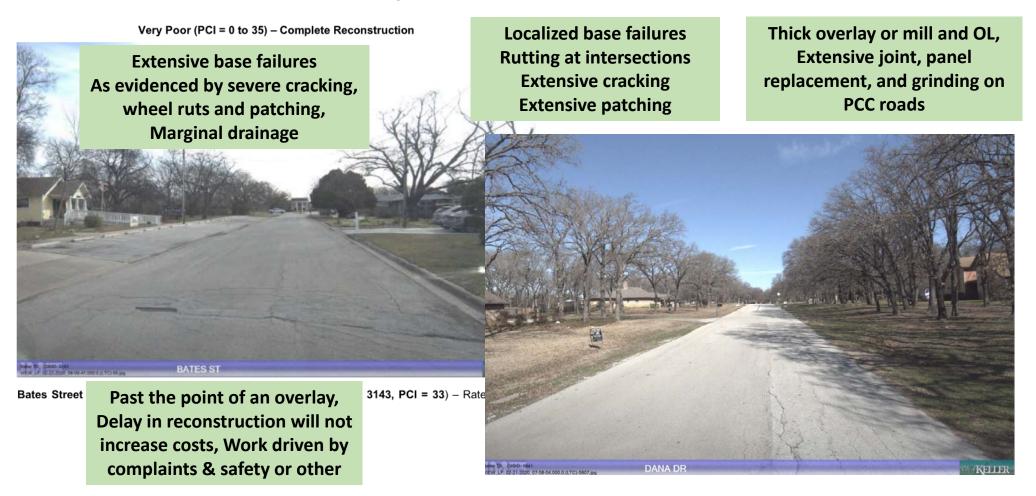


# **Pavement Rehabilitation Target Zone Techniques**



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#### **Very Poor** (0 – 35) & **Poor** (35-45)



## Marginal (45 – 55), Fair (55-65) & Good (65-75)

Fair (PCI = 55 to 65) - Thin to Moderate Overlays

Some Localized, Moderate

Distresses
Progressive cracking
Few Base Failures

Few Localized, Moderate
Distresses
Non-Load Related

Crack Seal and Heavy Surface
Treatment Candidate
Occasional Dig Out & Replace

Thin to Moderate Overlays
Joint Rehab and Panel
Replacement for PCC

Good (PCI = 65 to 75) - Surface Tre

Crack Seal and Heavy Surface
Candidate
Occasional Dig Out & Replace



Close to New Condition Small Visual Distresses Smooth Ride, Strong Base

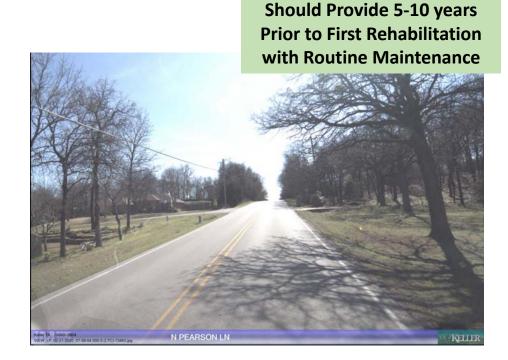
#### **Very Good** (75 – 85) & **Excellent** (85 – 100)

Very Good (PCI = 75 to 85) - Surface Treatments and Localized Rehabilitation



Good Candidate for Preventative
Maintenance and Light-Weight
Surface Treatments

Like-New Condition Very Few Minor Distresses Smooth Ride, Good Drainage



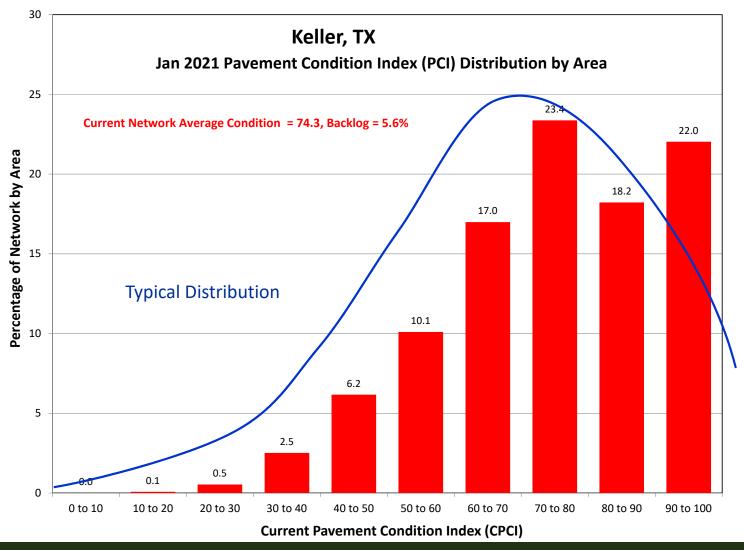
#### City of KELLER **Final Report** City of Keller 2005 **Pavement Management Analysis Report** 68 December, 2005 City of Keller, Public Works 1110 Bear Creek Parkway, Keller, TX, 76244 **Final Report** City of Keller 2010 2011 Pavement Management Analysis Report 76 July, 2011 City of Keller, Public Works 1110 Bear Creek Parkway, Keller, TX, 76244 Attention: Gregory W. Nickens. D.E. (217) 743-4080 City of Keller, TX **Pavement Management Analysis Report** 2015 77 February 2017 City of Keller Attn.: Alonzo Linan, P.E., Director of Public Works 1100 Bear Creek Parkway Keller,TX **Pavement Management Analysis Report** 2020 February, 2021 74 City of Keller, Texas Attn.: Alonzo Linan, Director of Public Works 1100 Bear Creek Parkway P.O. Box 770 City of Keller, TX 76248

Excellence • Integrity • Service • Creativity • Communication

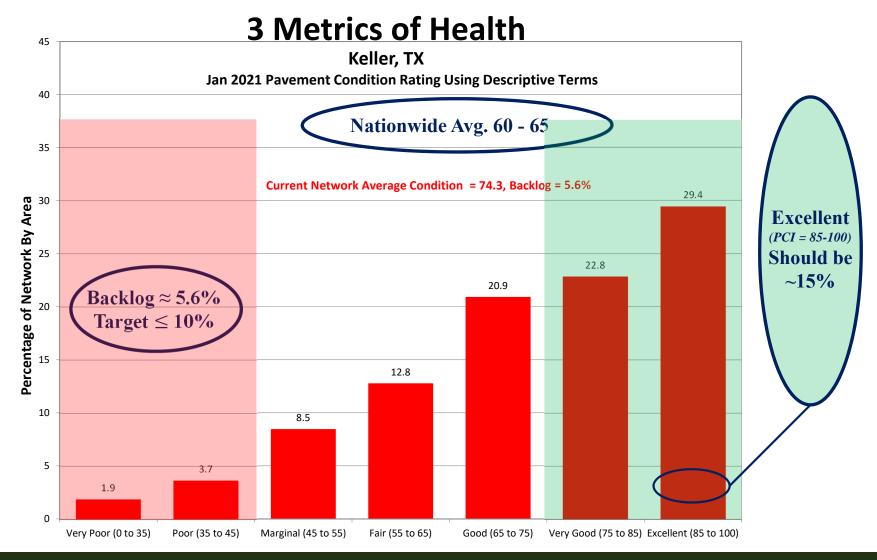
Keller, TX Network Summary by Functional Class

	Pavetype	Network	Arterial	Collector	Residential
Segment (Block) Count	All Streets	2247	71	314	1862
	Asphalt	893	2	240	651
	Concrete	1354	69	74	1211
Network Area (yd2)	All Streets	3,444,512	247,588	539,421	2,657,504
	Asphalt	1,378,834	9,683	370,801	998,349
	Concrete	2,065,678	237,904	168,620	1,659,154
Pavement Condition Index	All Streets	75.1	84	74	75
(PCI)	Asphalt	64	70	68	62
	Concrete	83	84	85	82

<sup>\* -</sup> Summer of 2020 Rating

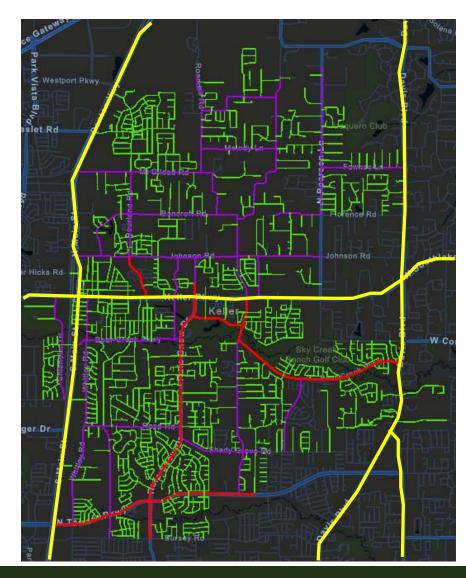


Excellence • Integrity • Service • Creativity • Communication



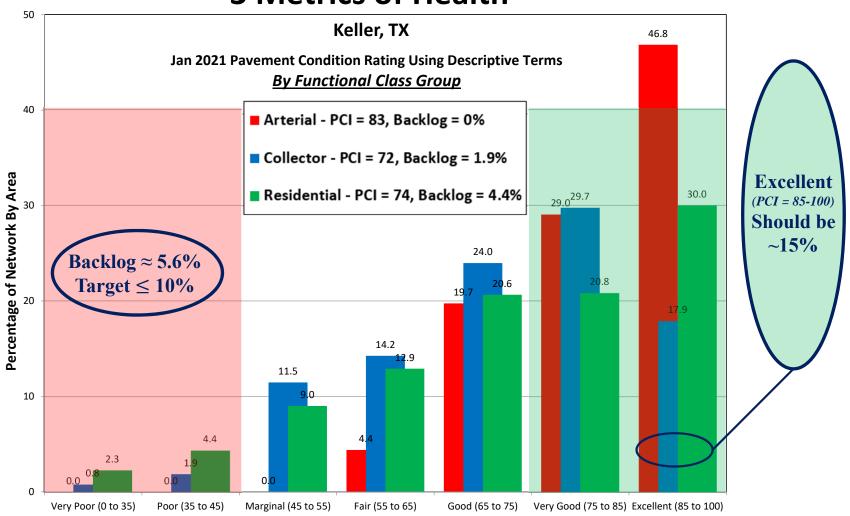
Excellence • Integrity • Service • Creativity • Communication





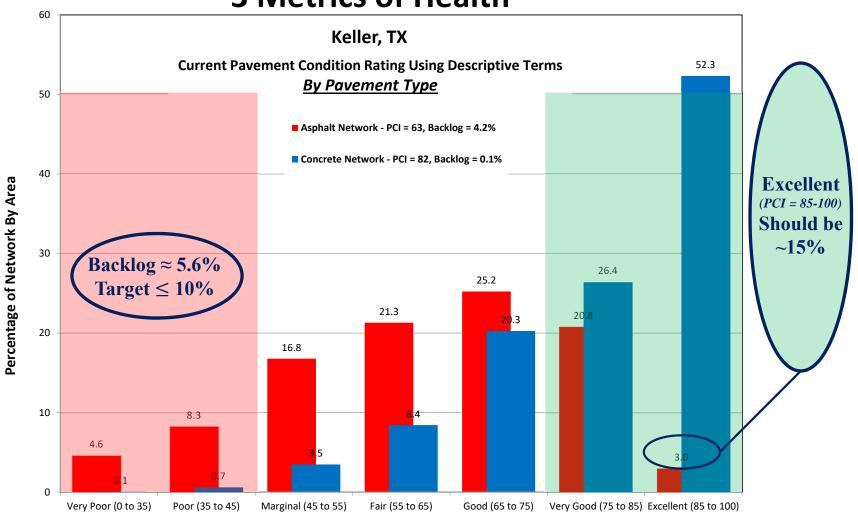
Excellence • Integrity • Service • Creativity • Communication

#### 3 Metrics of Health



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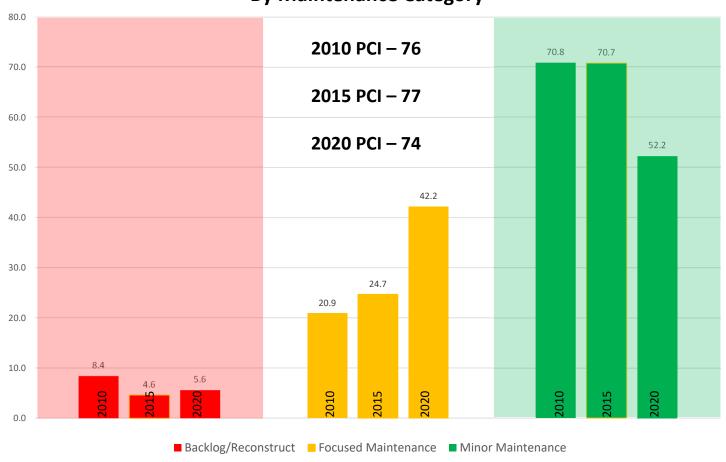
#### 3 Metrics of Health



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#### **Historical Trend**

**By Maintenance Category** 



#### **Next Steps**

- Staff will use this data to develop upcoming street maintenance packages and capital improvement recommendations
- Annual maintenance packages will continue to be evaluated by City Council during each year's budget process, and again at the bidding stage



Questions? Alonzo Liñán 817-743-4081