

California Statewide Local Streets & Roads Needs Assessment - 2020 Update

CSAC/Cal Cities Webinar

August 25, 2021



RTPA
RCTF



Project Sponsors

- California State Association of Counties
- League of California Cities
- County Engineers Association of California
- Regional Transportation Planning Agencies
- Rural Counties Task Force
- Caltrans Highway Bridge Program Advisory Committee

**Has this project
been successful?**



Senate Bill No. 1

Approved by Governor April 28, 2017



SECTION 1.

The Legislature finds and declares all of the following:

(a) Over the next 10 years, the state faces a \$59 billion shortfall to adequately maintain the existing state highway system in order to keep it in a basic state of good repair.

(b) Similarly, cities and counties face a \$78 billion shortfall over the next decade to adequately maintain the existing network of local streets and roads.

(1) The revenues estimated to be available for allocation under the act to local agencies are estimated over the next 10 years to be as follows:

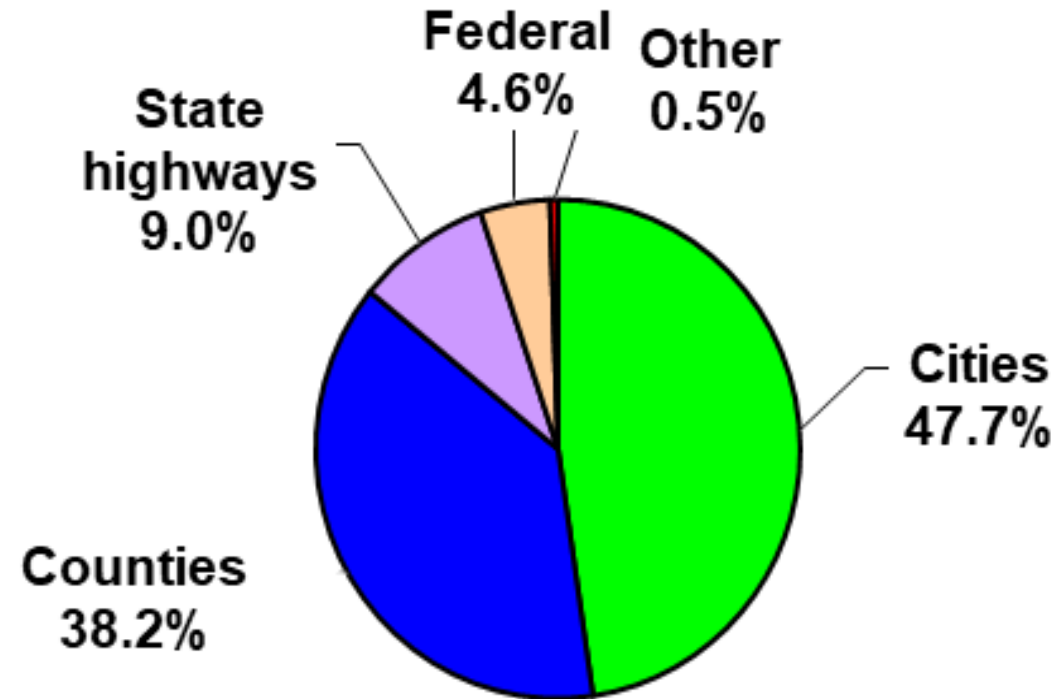
(A) Fifteen billion dollars to local street and road maintenance.

Project Objectives

- What are pavement conditions statewide?
- How much will it cost to maintain local roads? Bridges? Essential components?
- What is the funding shortfall?
- What are impacts of different funding scenarios?
- Communicate results to elected officials, the public and the media!

Local Roads Are A Huge Part of California's Network

More than 85% of California's roads are owned by cities and counties. That's more than 144,000 centerline miles.

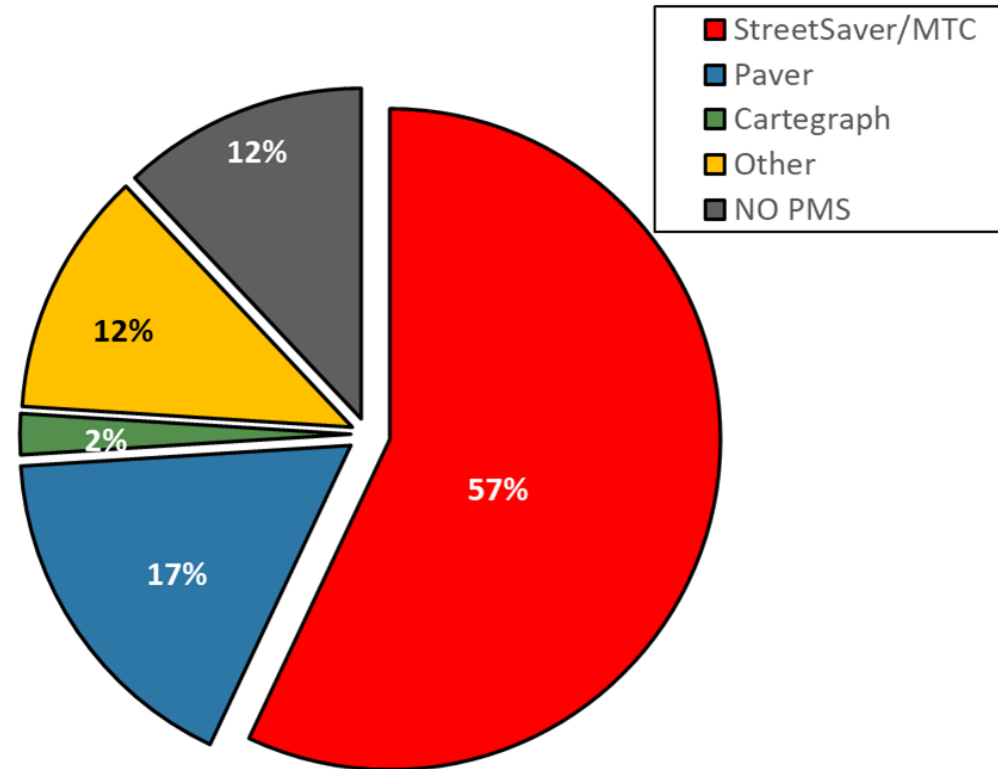


Pavements

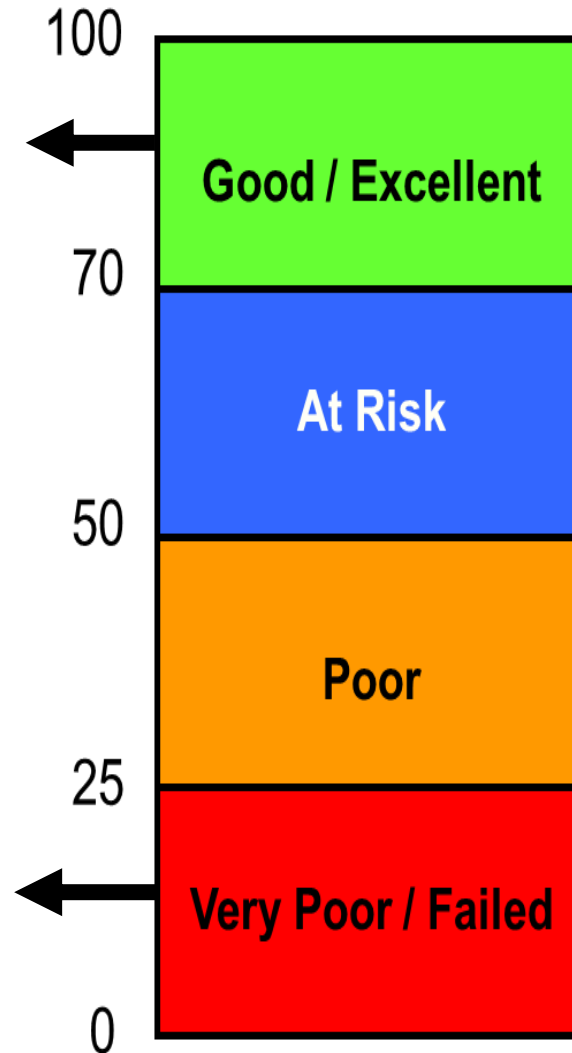


Survey Responses – PMS Software

98% of total miles
are included in a
pavement
management
system



Average Statewide PCI

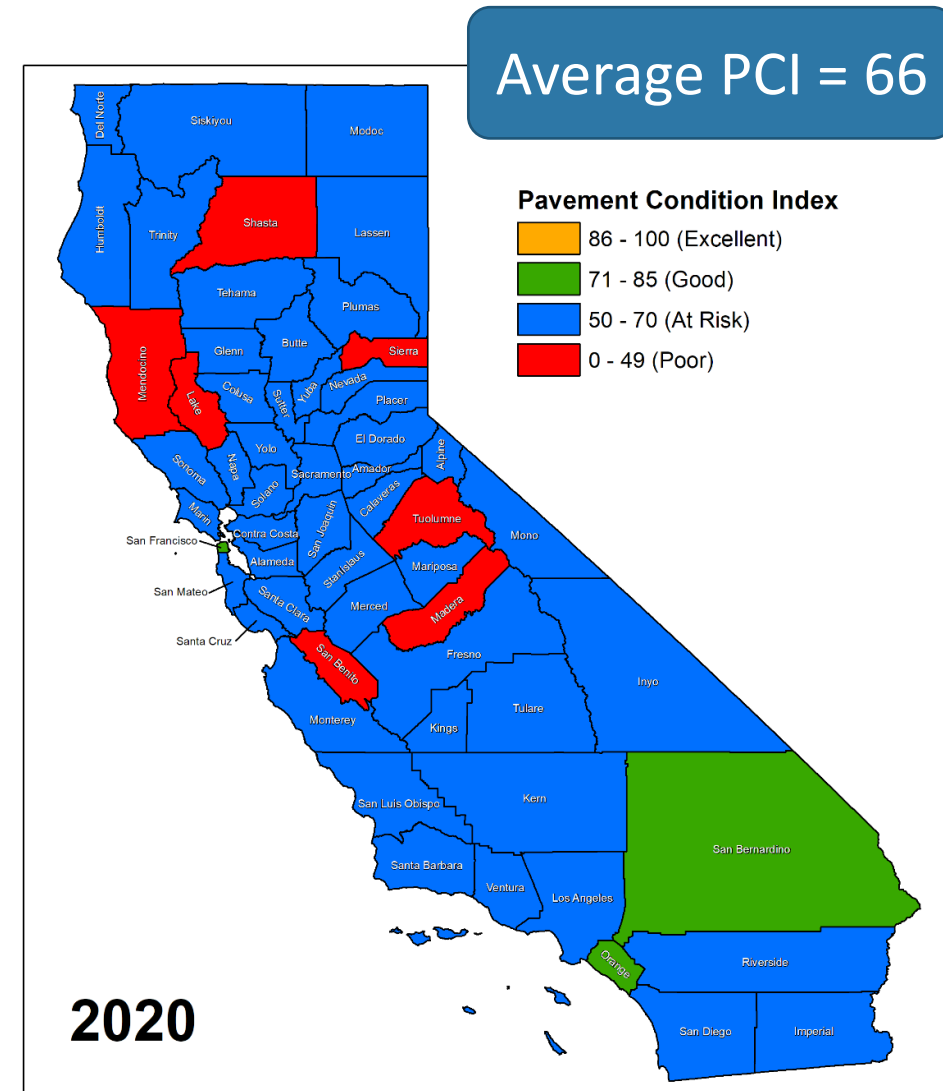
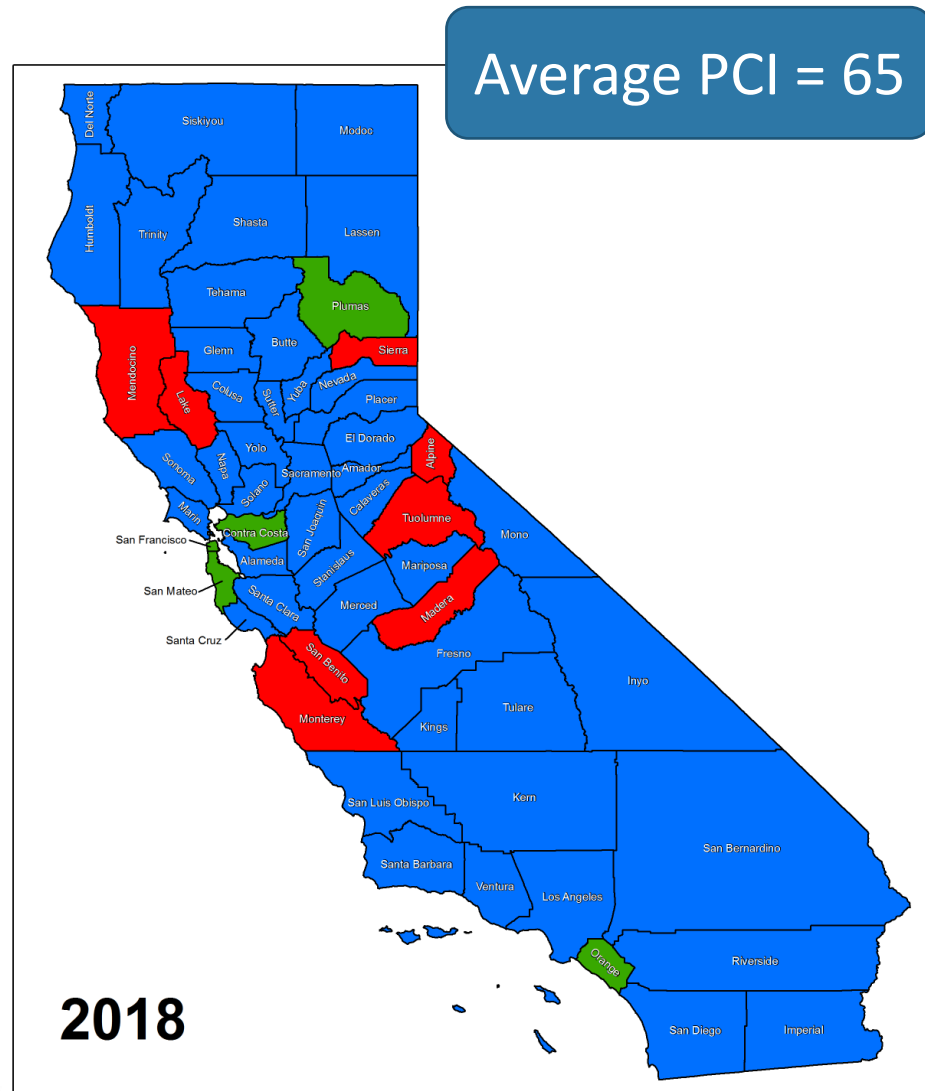


2020
Average PCI = 66
Cities = 68
Counties = 61

PCI of 66
Looks
Like This

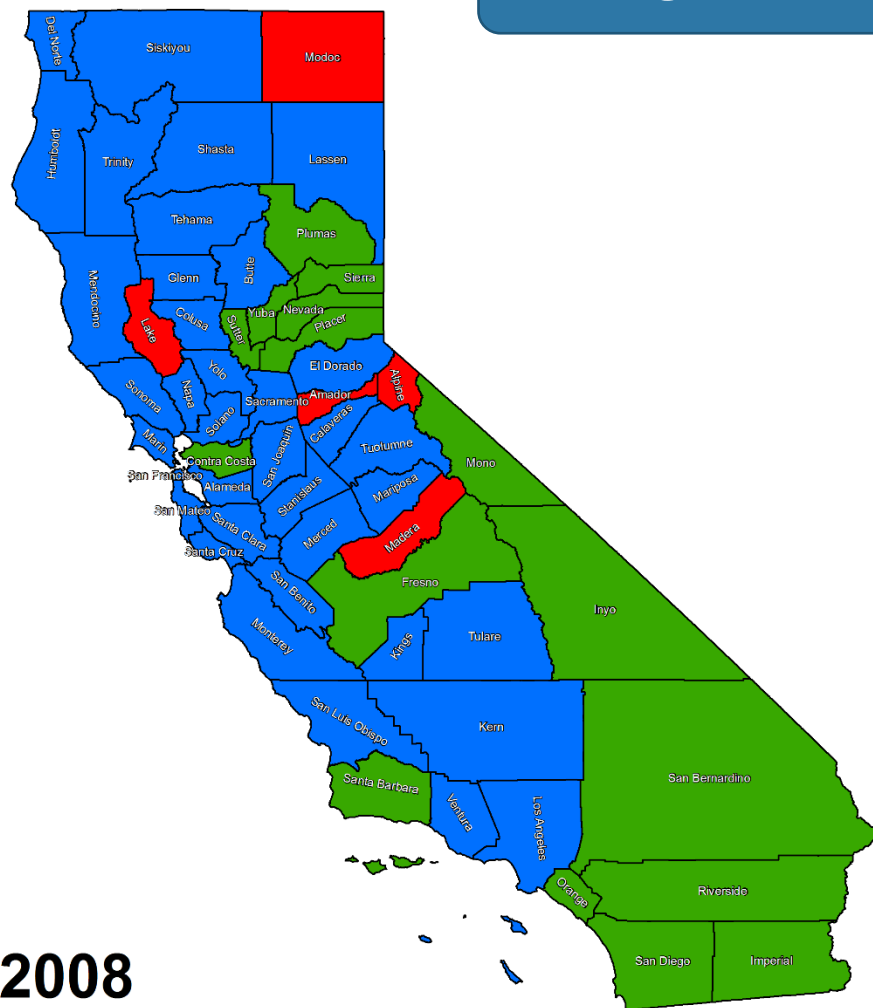


Average PCIs Don't Tell the Whole Story



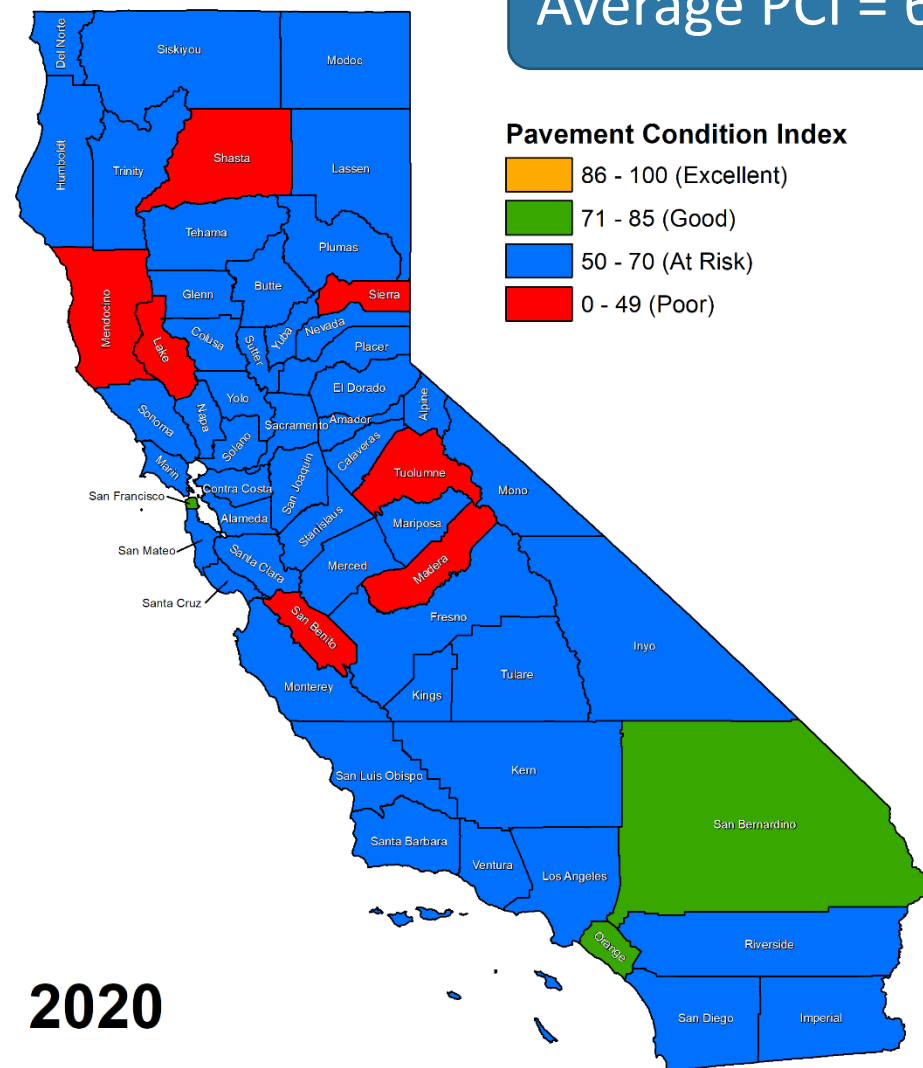
Compare 2008 with 2020

Average PCI = 68



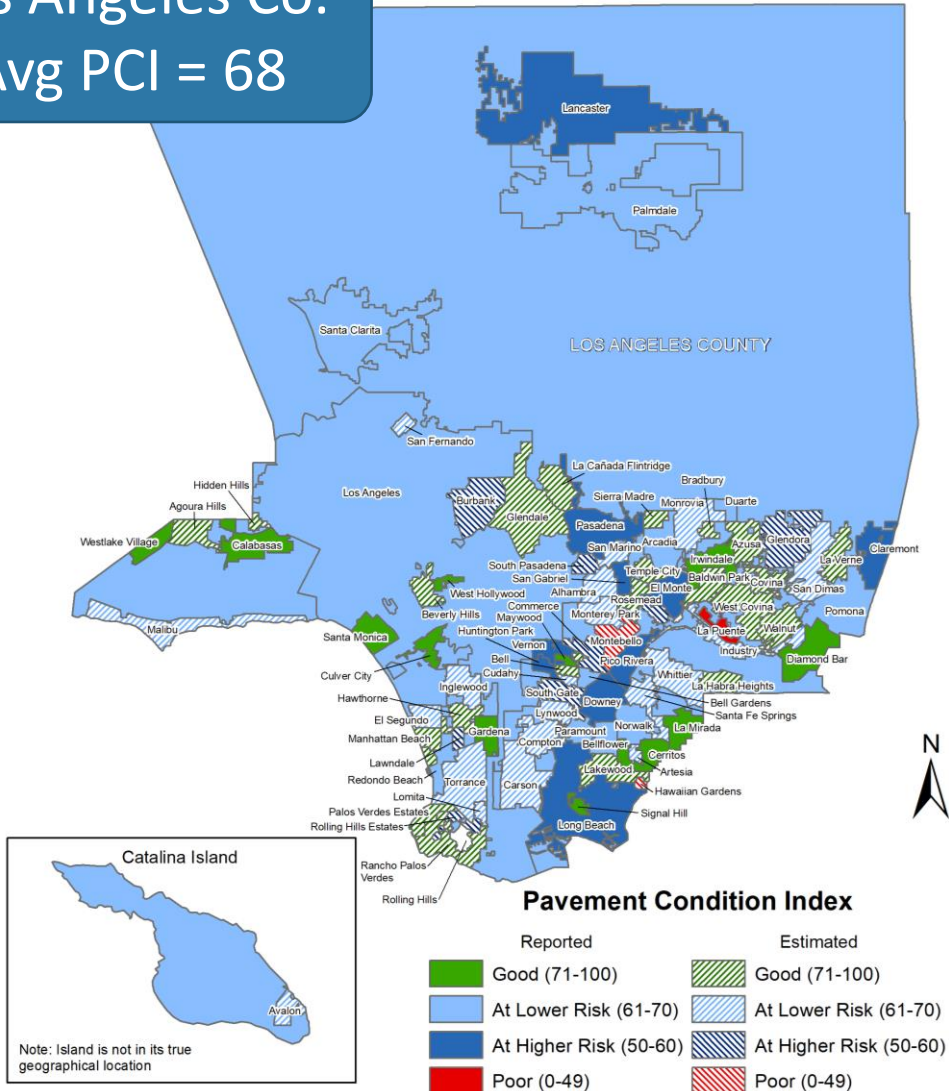
2008

Average PCI = 66

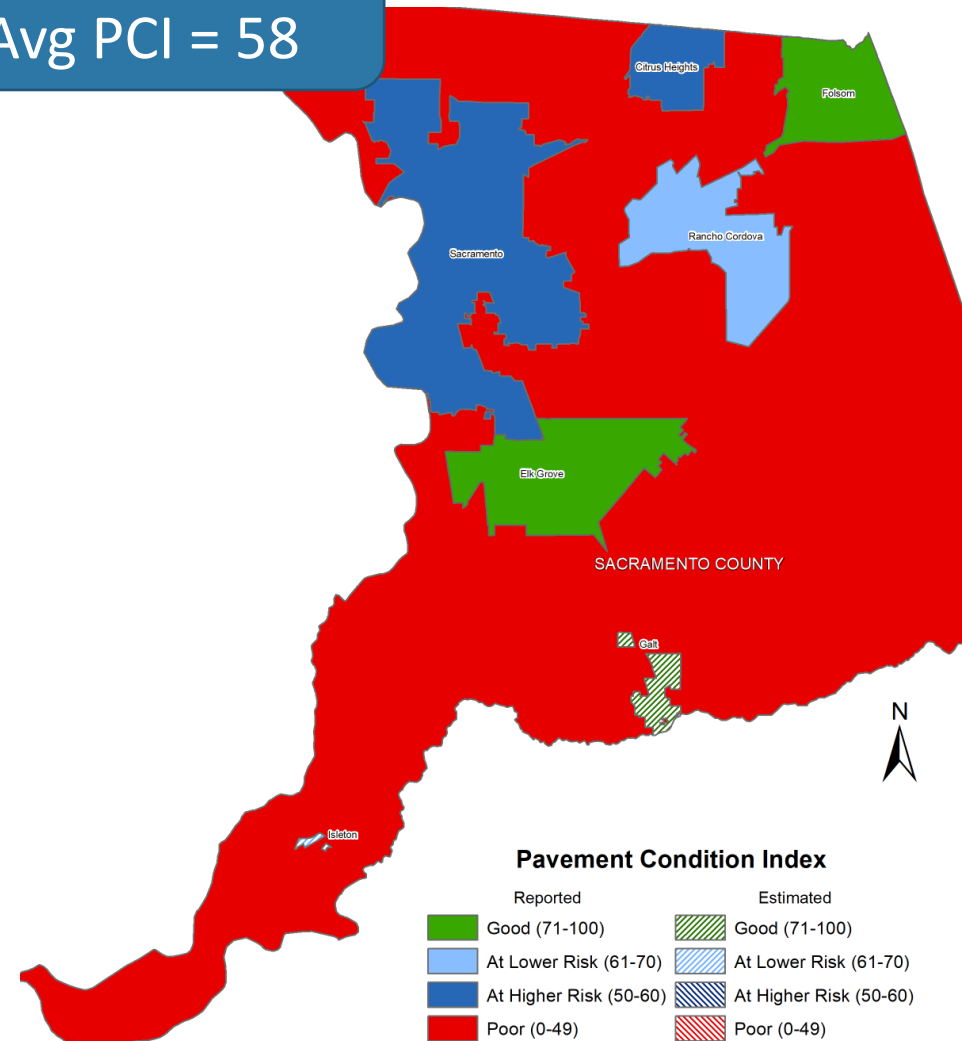


2020

Los Angeles Co.
Avg PCI = 68



Sacramento Co.
Avg PCI = 58



Complete Streets



Huge Range in Incremental Costs

Average
\$117/sy

City of Santa Ana

Population: 332,725

Street Network: 424 miles

Complete street elements:

- Bike lanes
- Landscaped buffer
- Street lights
- Sidewalk widening

Incremental Cost: \$18/sy



The City of
Santa Ana



City of Emeryville



Population: 12,104

Street Network: 20 miles

Complete street elements:

- Street widening
- Bike/bus movement innovation
- In-lane transit island stop

Incremental Cost: \$50/sy



Huge Range in Incremental Costs

Average
\$117/sy

City of San Clemente

Population: 64,857

Street Network: 134 miles

Complete street elements:

- Street widening
- Class II bicycle lanes

Incremental Cost: \$135/sy



City of Mill Valley

Population: 14,295

Street Network: 60 miles

Complete street elements:

- Median replacement
- Bike lane
- Sidewalk widening
- Ramp

Incremental Cost: \$726/sy




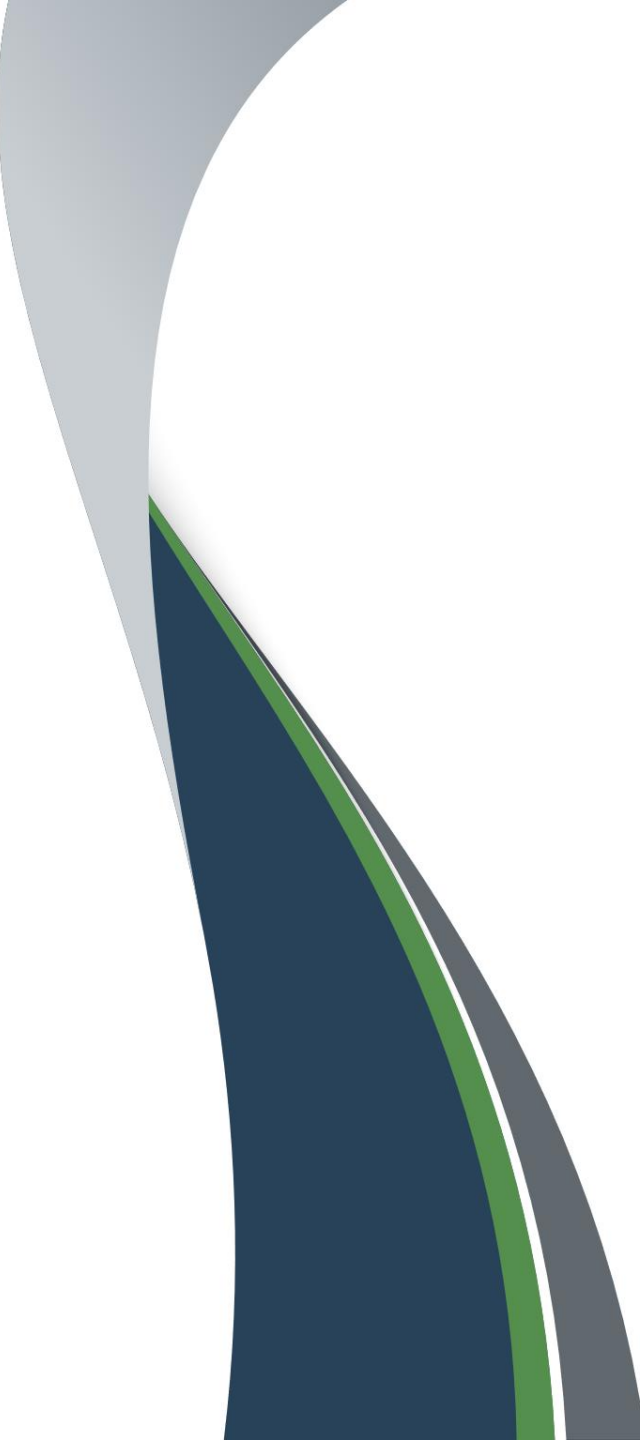
Additional Regulatory Requirements

Responses are guesstimates but needs are consistently about \$9.6 billion.

Regulatory Requirements	Needs (\$M)	Funding (\$M)	Shortfall (\$M)
ADA	\$ 2,444	\$ 1,120	\$ (1,324)
NPDES	\$ 6,340	\$ 5,369	\$ (971)
Traffic Signs	\$ 286	\$ 152	\$ (134)
Complete Streets	\$ 501	\$ 16	\$ (485)
Other	\$ 87	\$ 34	\$ (53)
Total	\$ 9,658	\$ 6,691	\$ (2,967)

Trends in Construction Costs

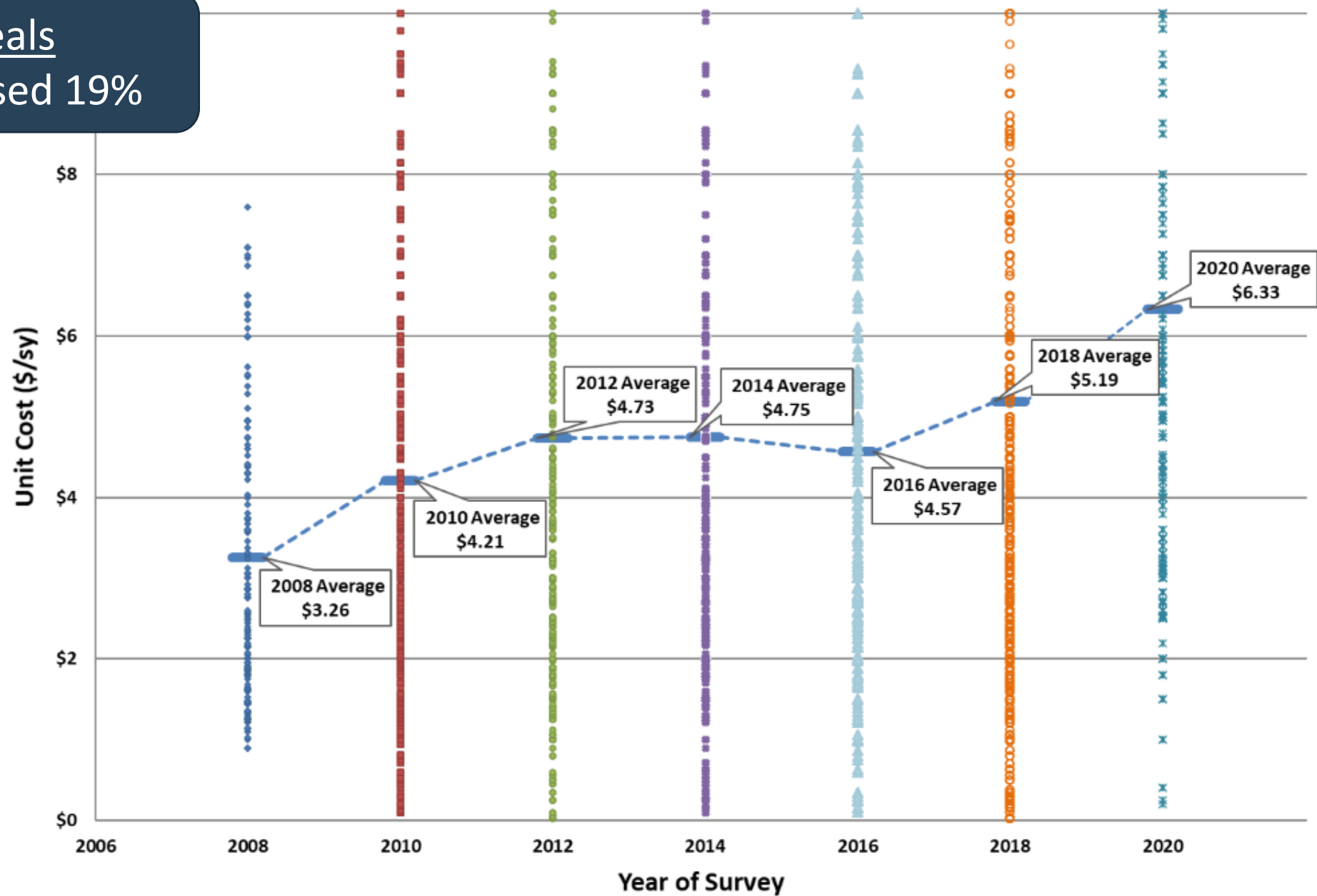




PCI = 75
Treatment – Surface Seal (\$6.60/sy)

Seals
Increased 19%

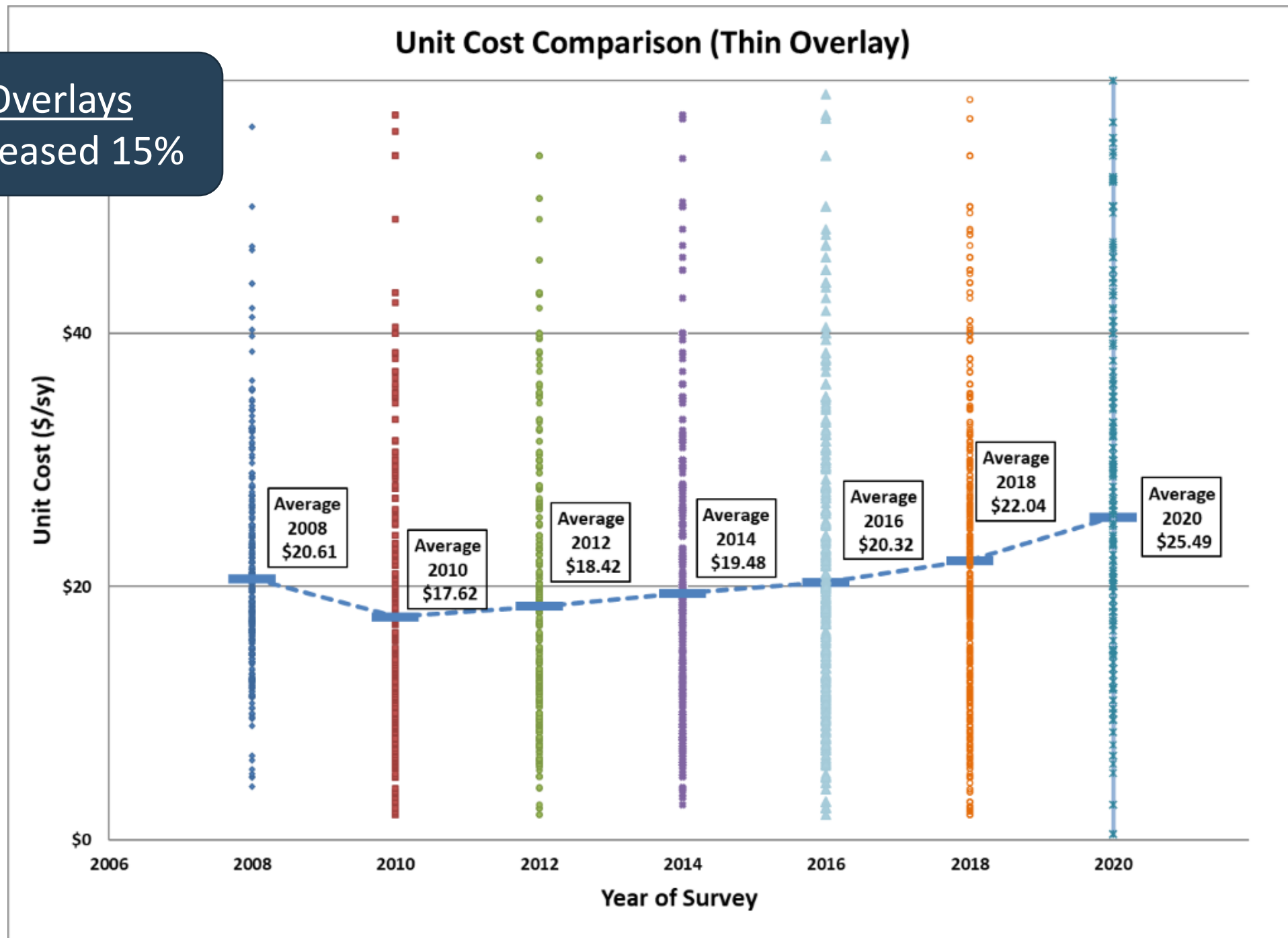
Unit Cost Comparison (Preventive Maintenance)


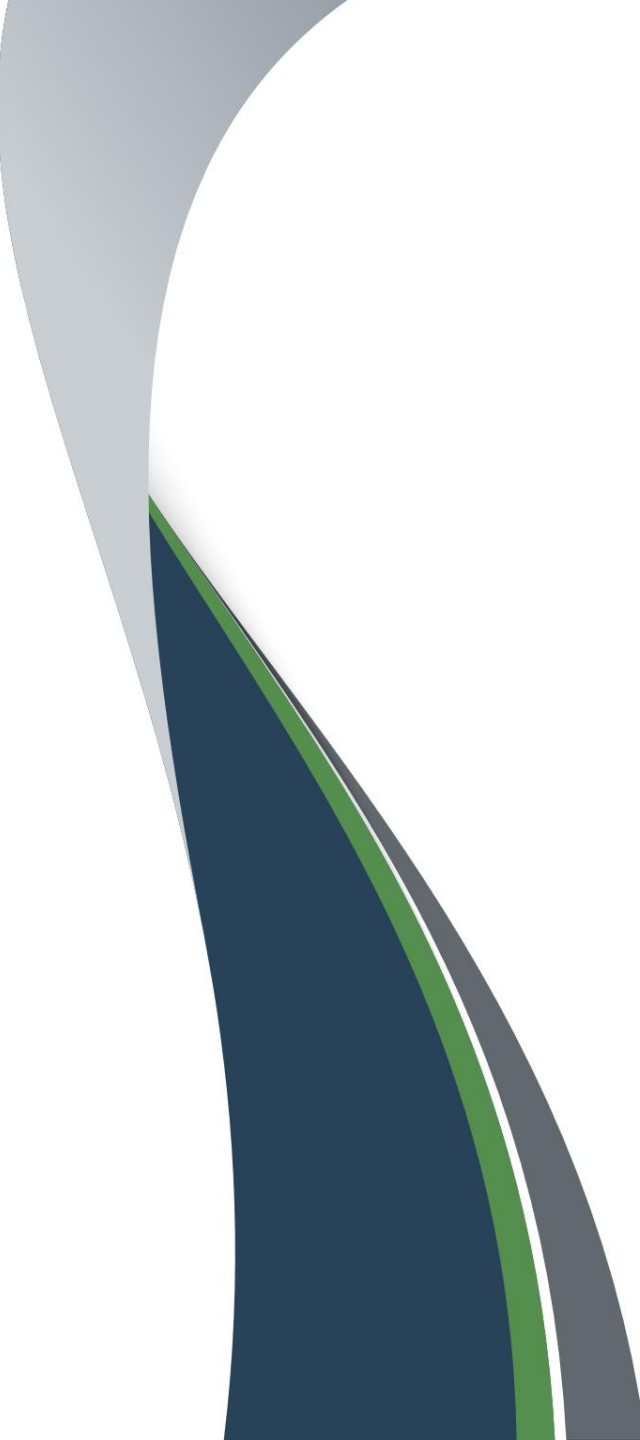




PCI = 54
Treatment – Overlay (\$25/sy)

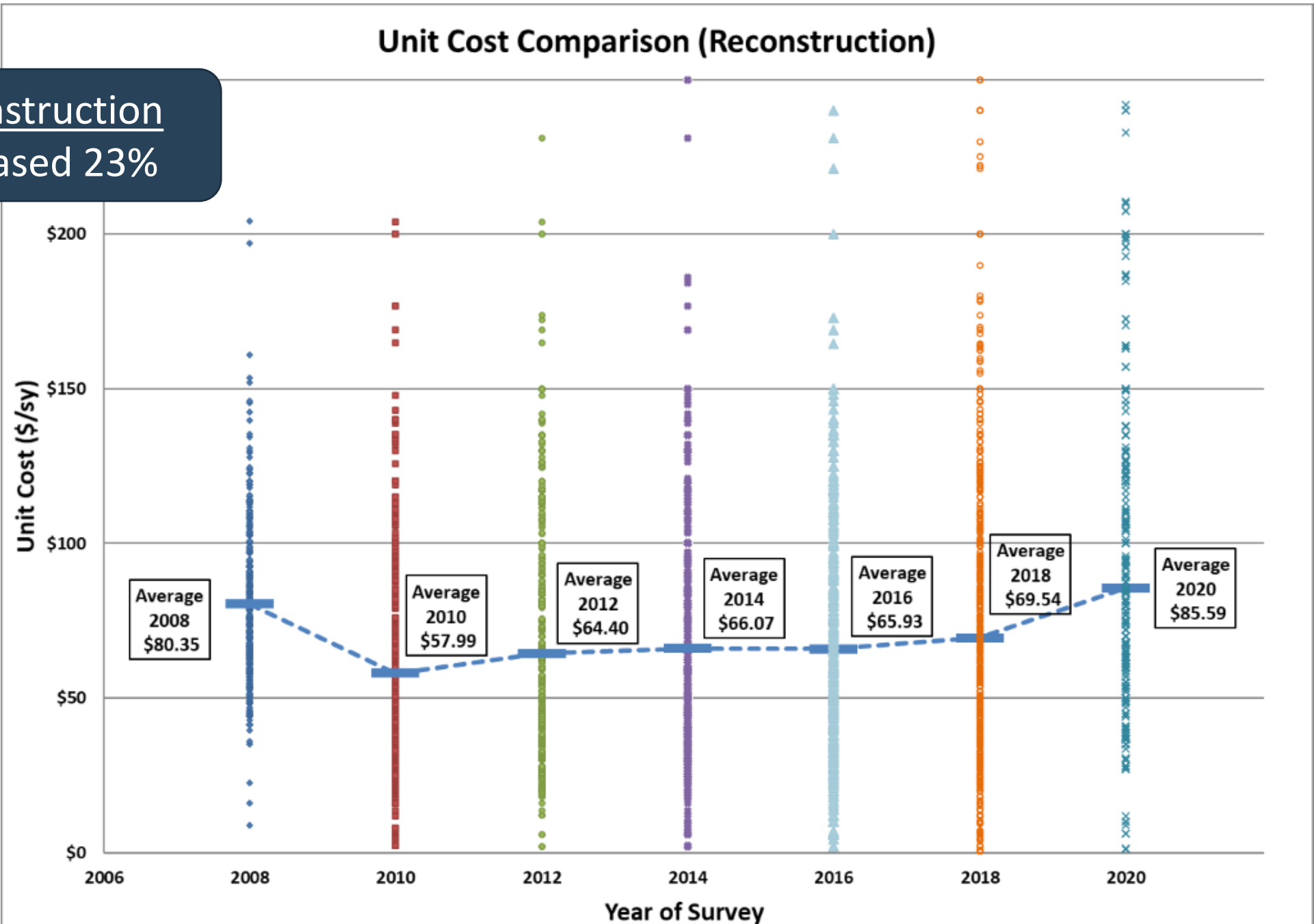
Overlays
Increased 15%





PCI = 5
Treatment – Reconstruction (\$85/sy)

Reconstruction
Increased 23%





There are 9,592 miles of unpaved roads
that need \$1.6 billion over 10 years



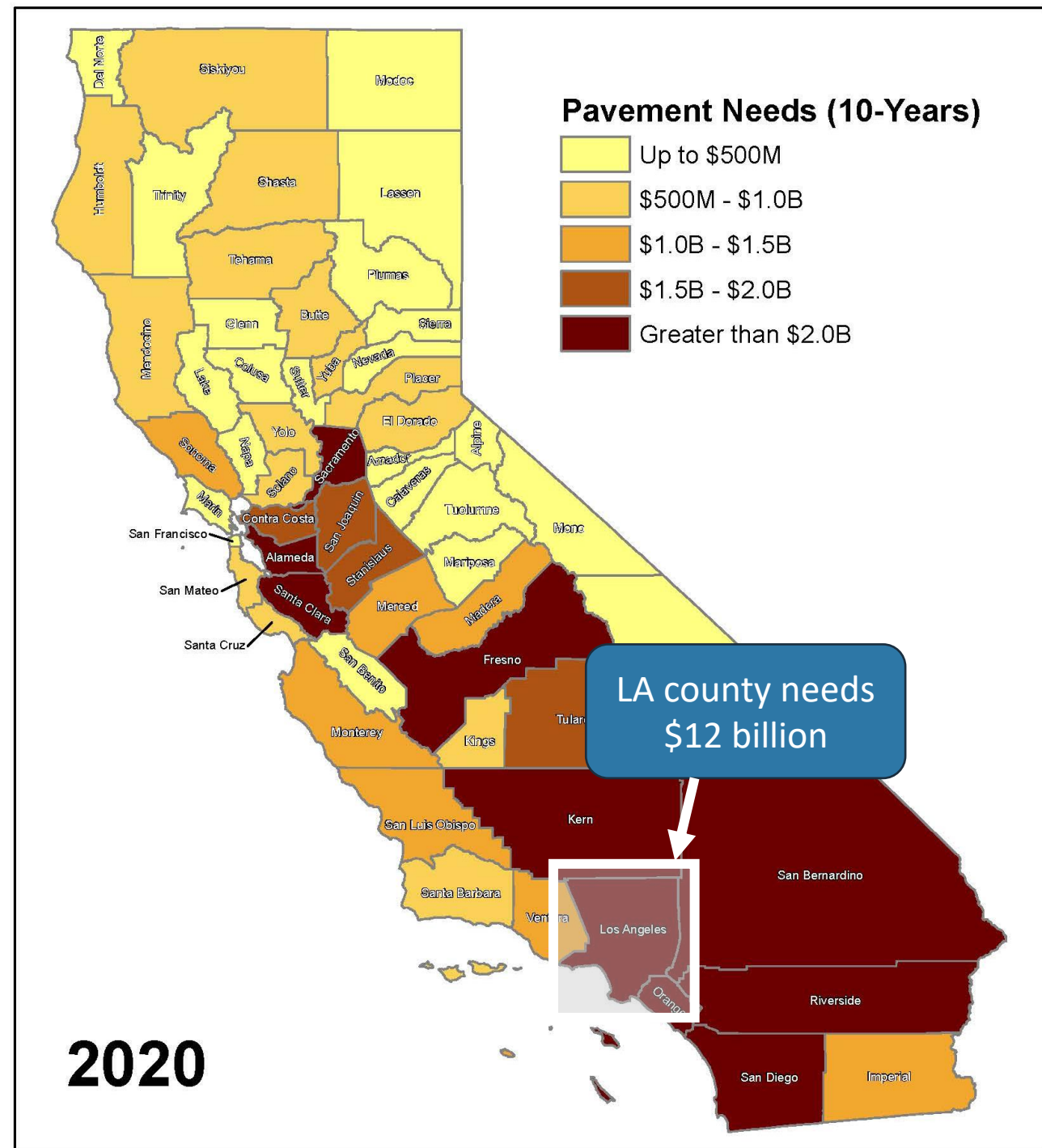
Total Pavement Needs = \$76 billion
(\$61.7 billion in 2018)

**Pavement
Needs by
County**

**See Final Report
(Appendix C) for
your County's data**

**Pavement
Needs by
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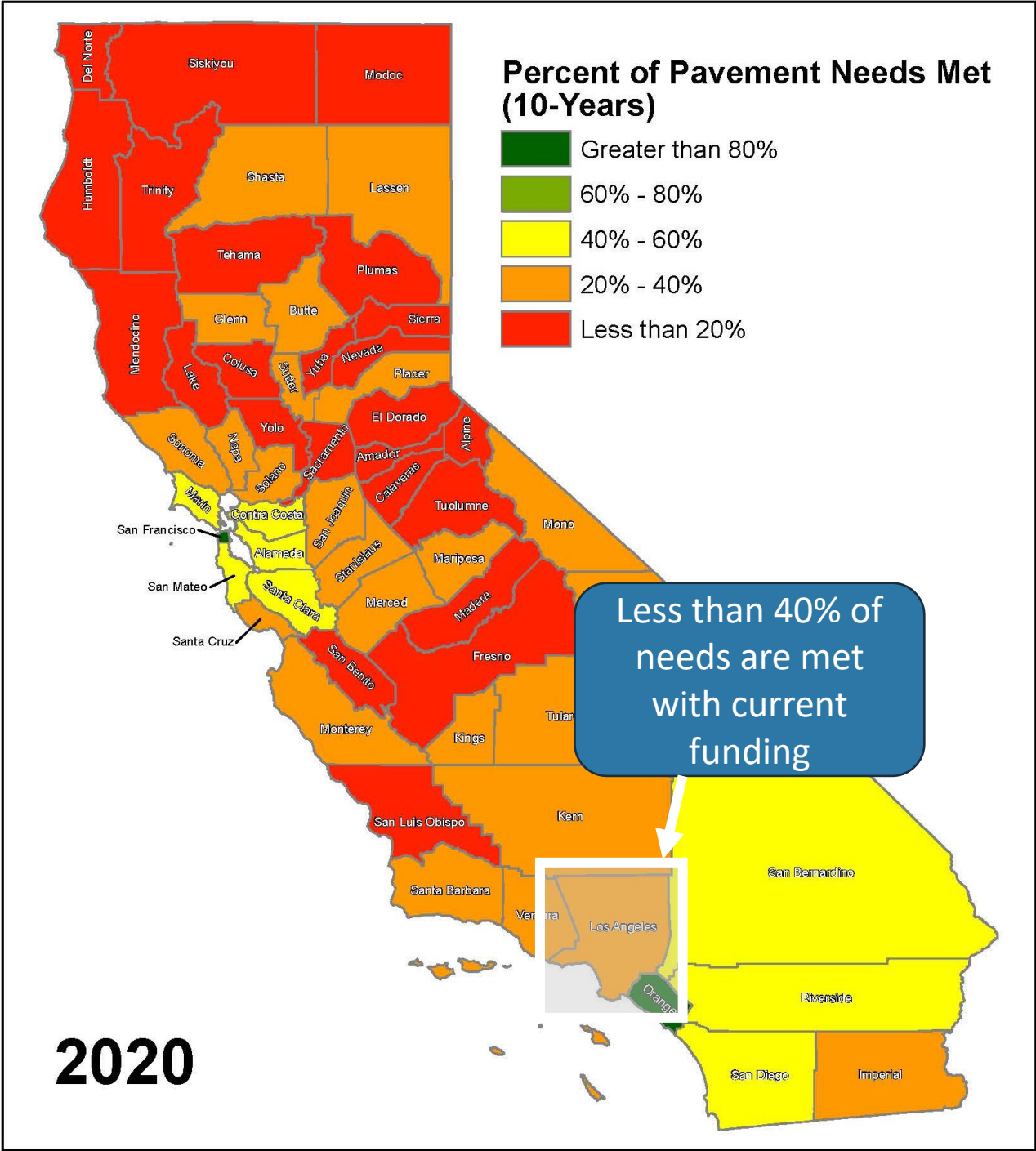


Pavement
Needs Met by
County

See Final Report
(Appendix C)

Pavement
Needs Met by
County

See Final Report
(Appendix C)



Essential Components



Essential Components Include:

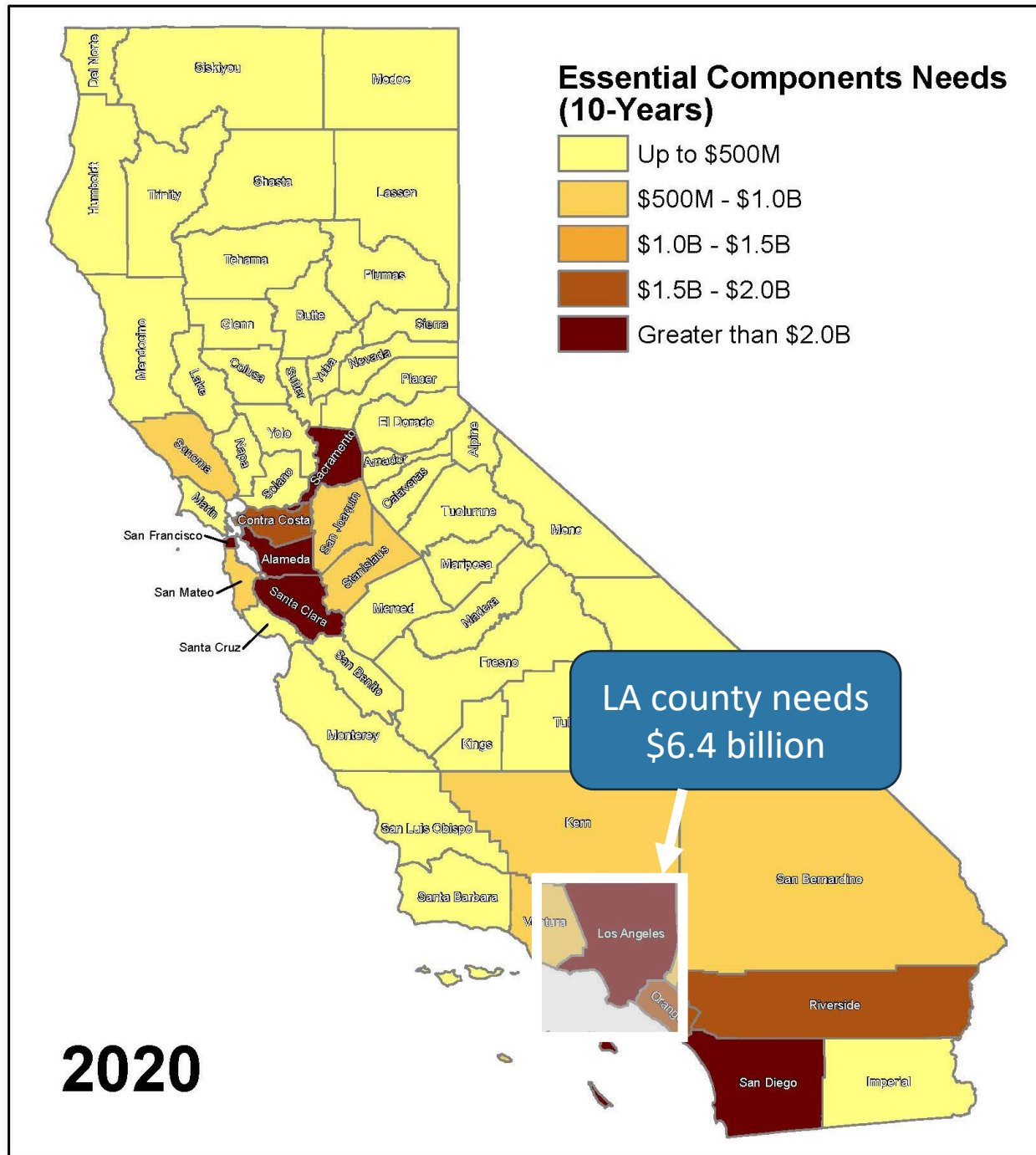


They add up ... approximately 30% of total needs!

Essential Components

\$35.5 Billion

See final report
(Appendix D) for your
County's data



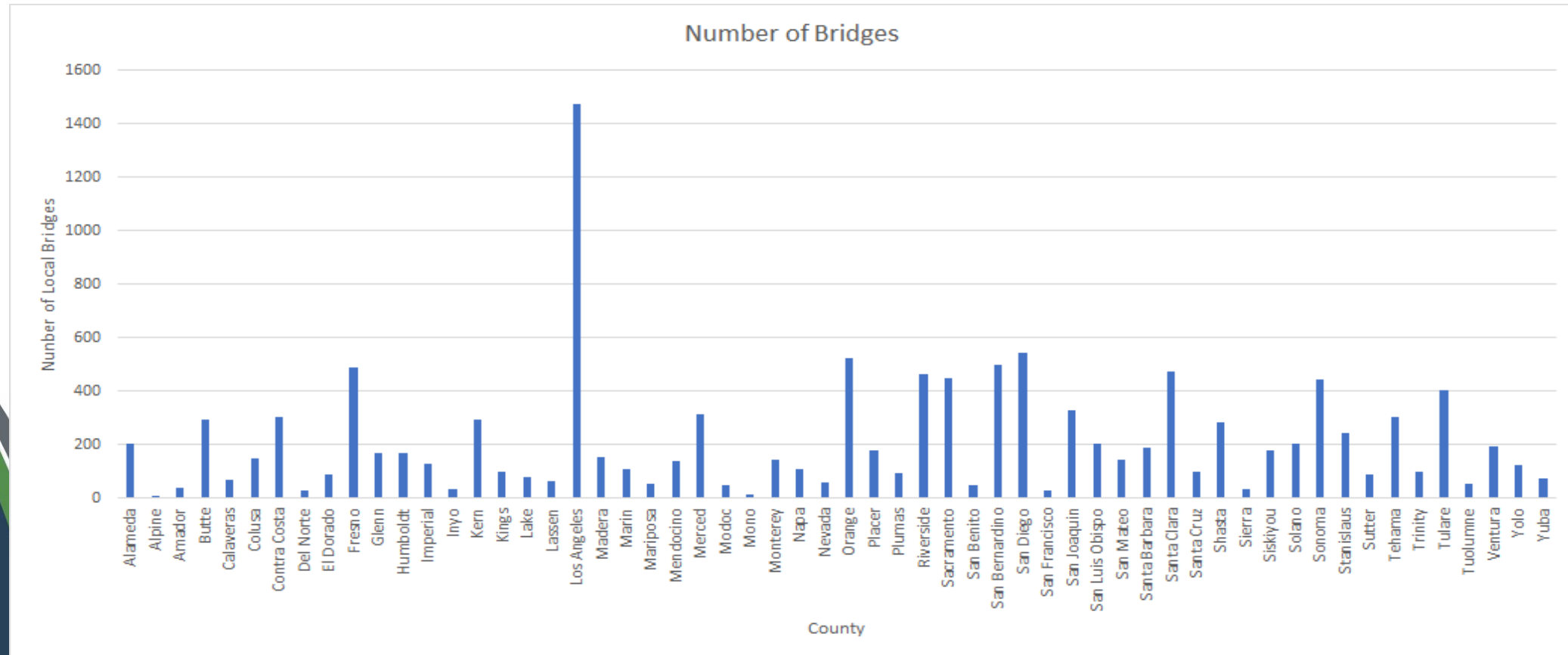
Local Bridges

From:

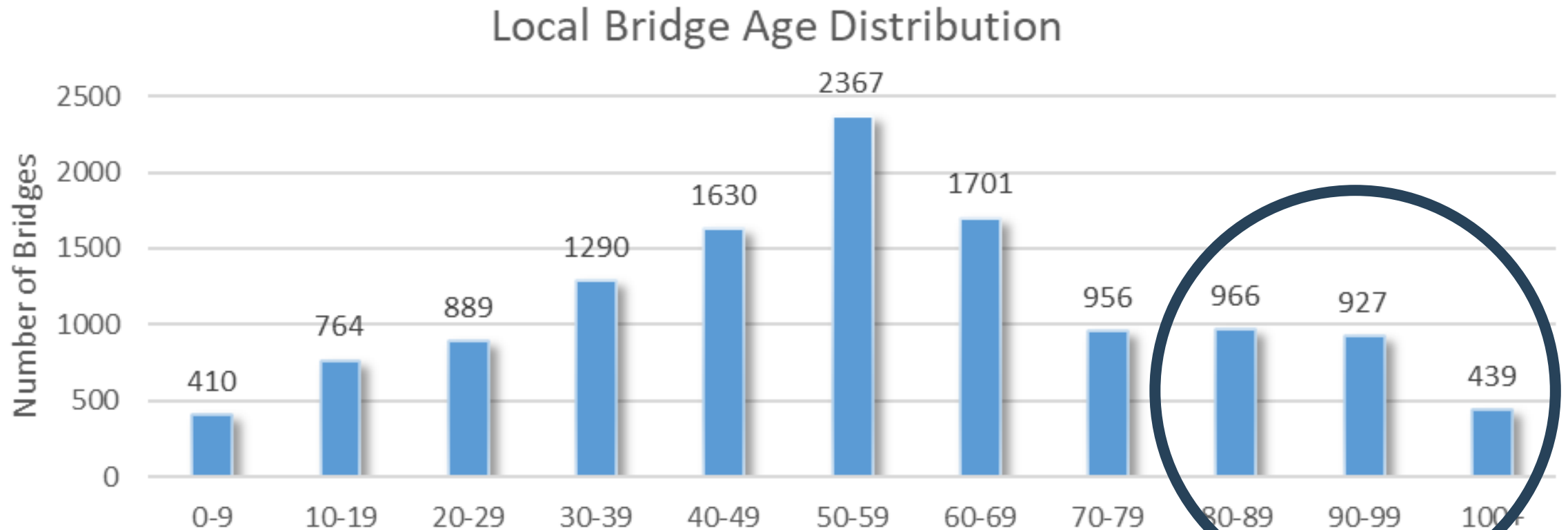
Quincy Engineering
Spy Pond Partners



Cities & Counties Own 12,339 Bridges



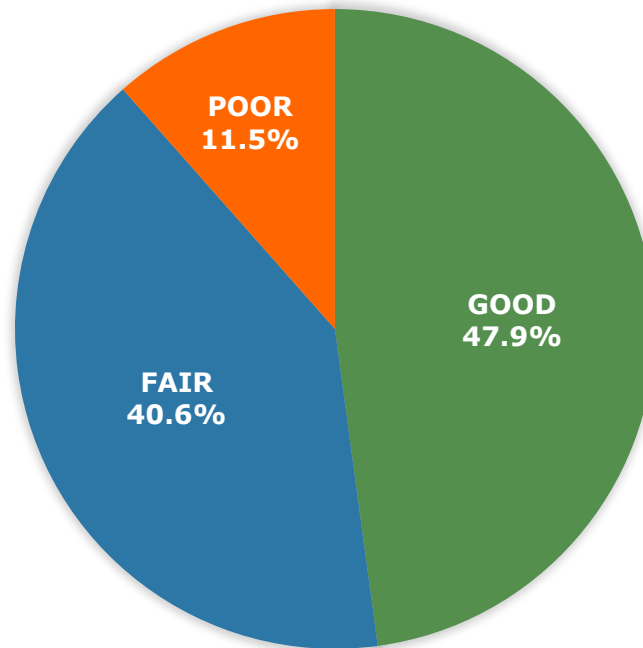
How Old Are Local Bridges?



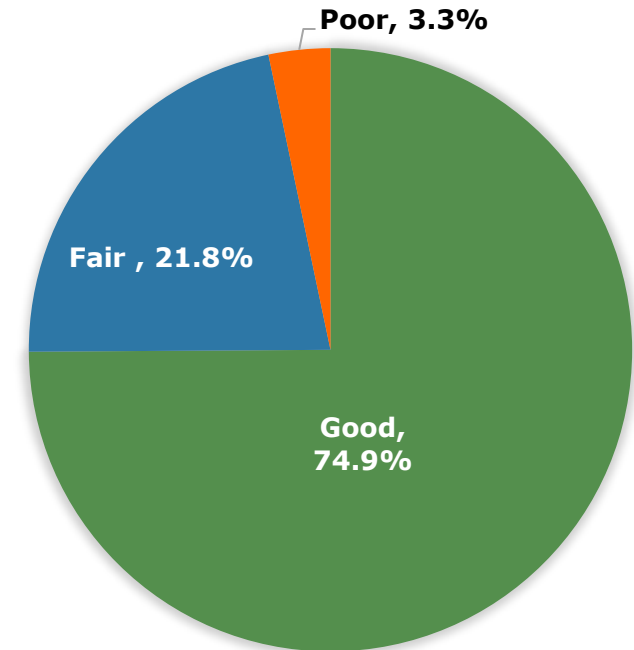
Almost 20% are more than 80 years old

Bridge Conditions (Local & State)

LOCAL BRIDGES

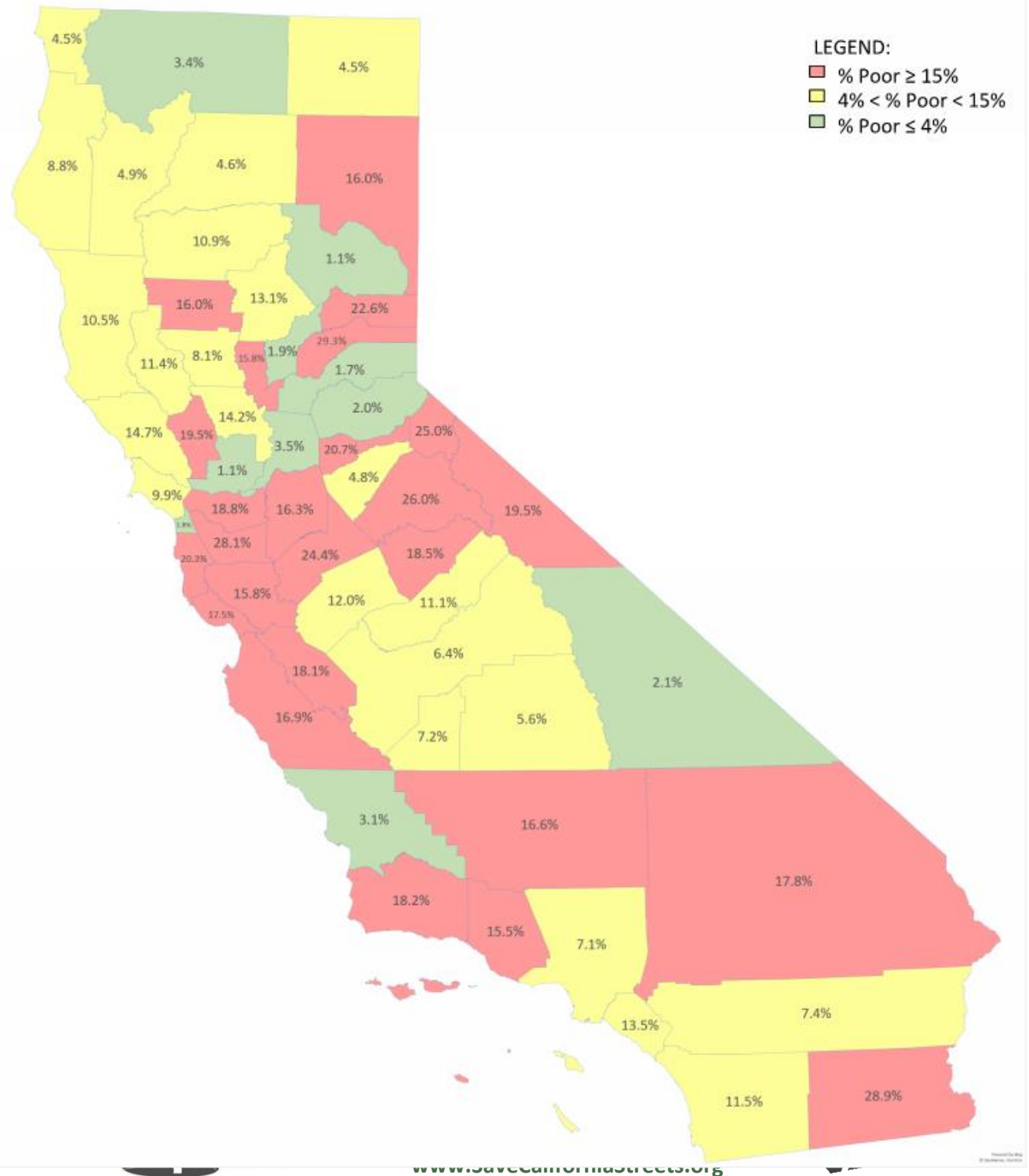


STATE BRIDGES



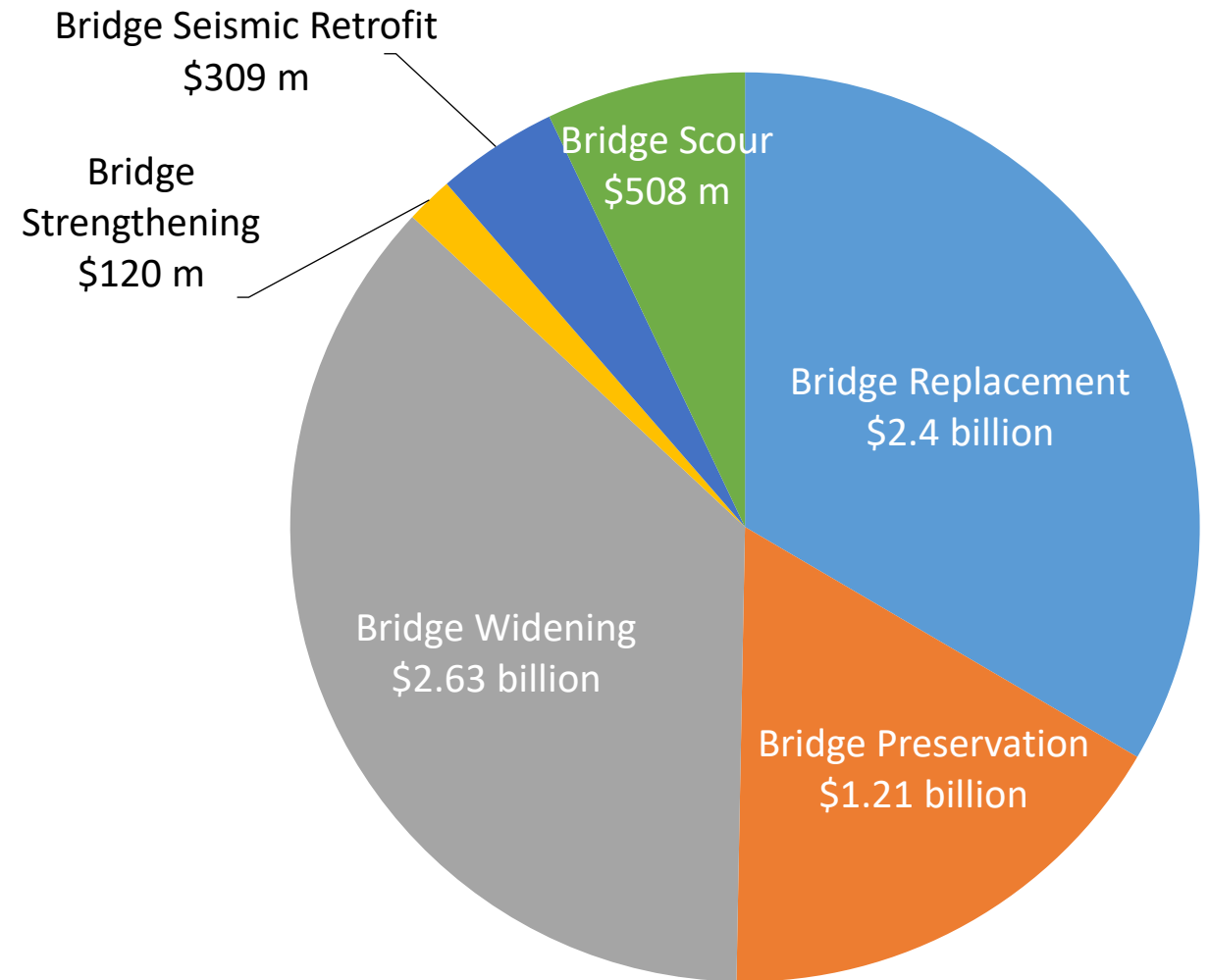
Percent Poor by County

Percent Poor by County



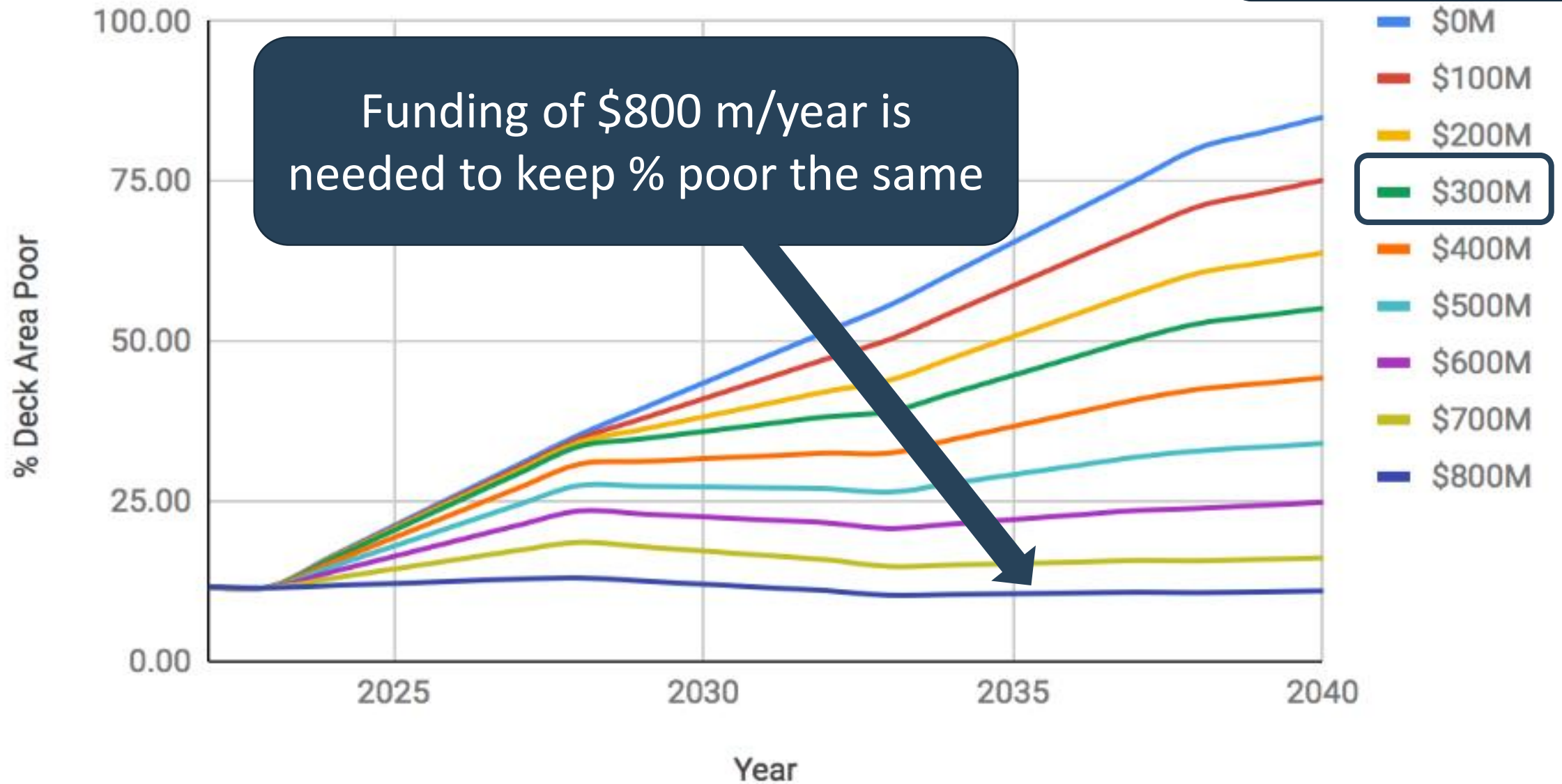
Local Bridge Needs

\$7.2 billion



Percent Poor by Annual Budget

Actual funding
\$290 m/year



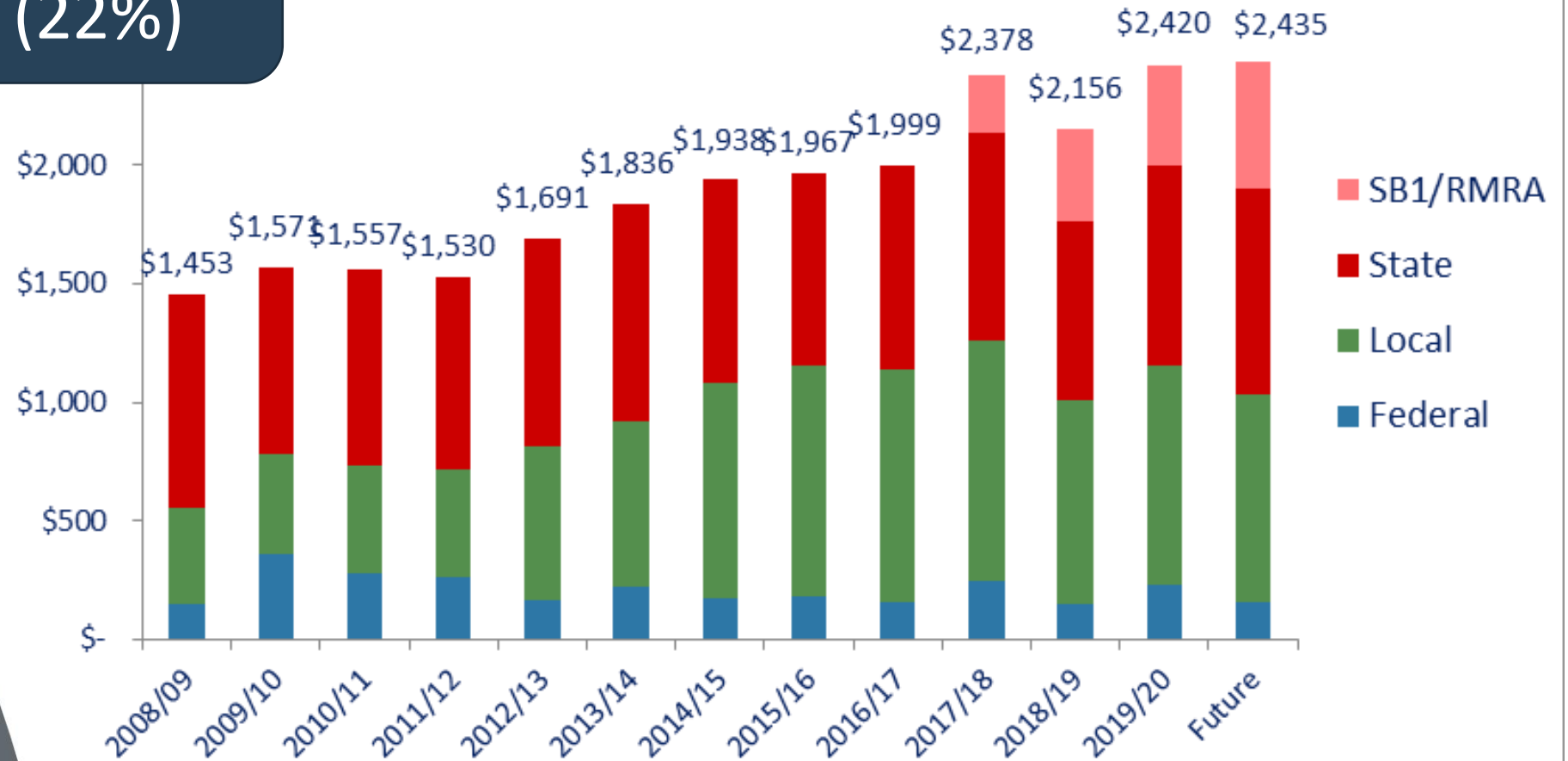
How is SB 1
Helping?



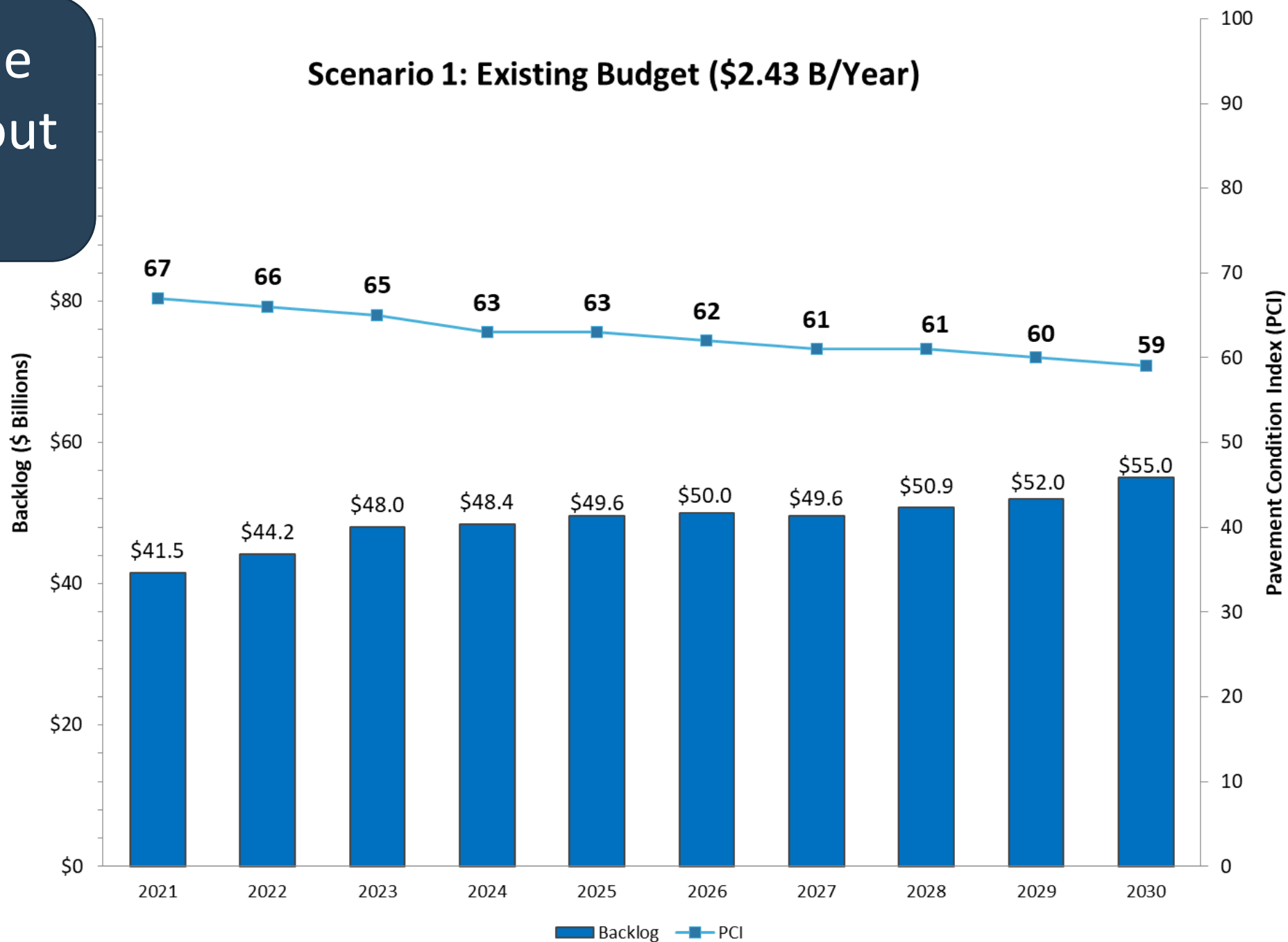
Funding Trends

SB1 is adding
\$533 m (22%)

Pavement Funding (\$M)

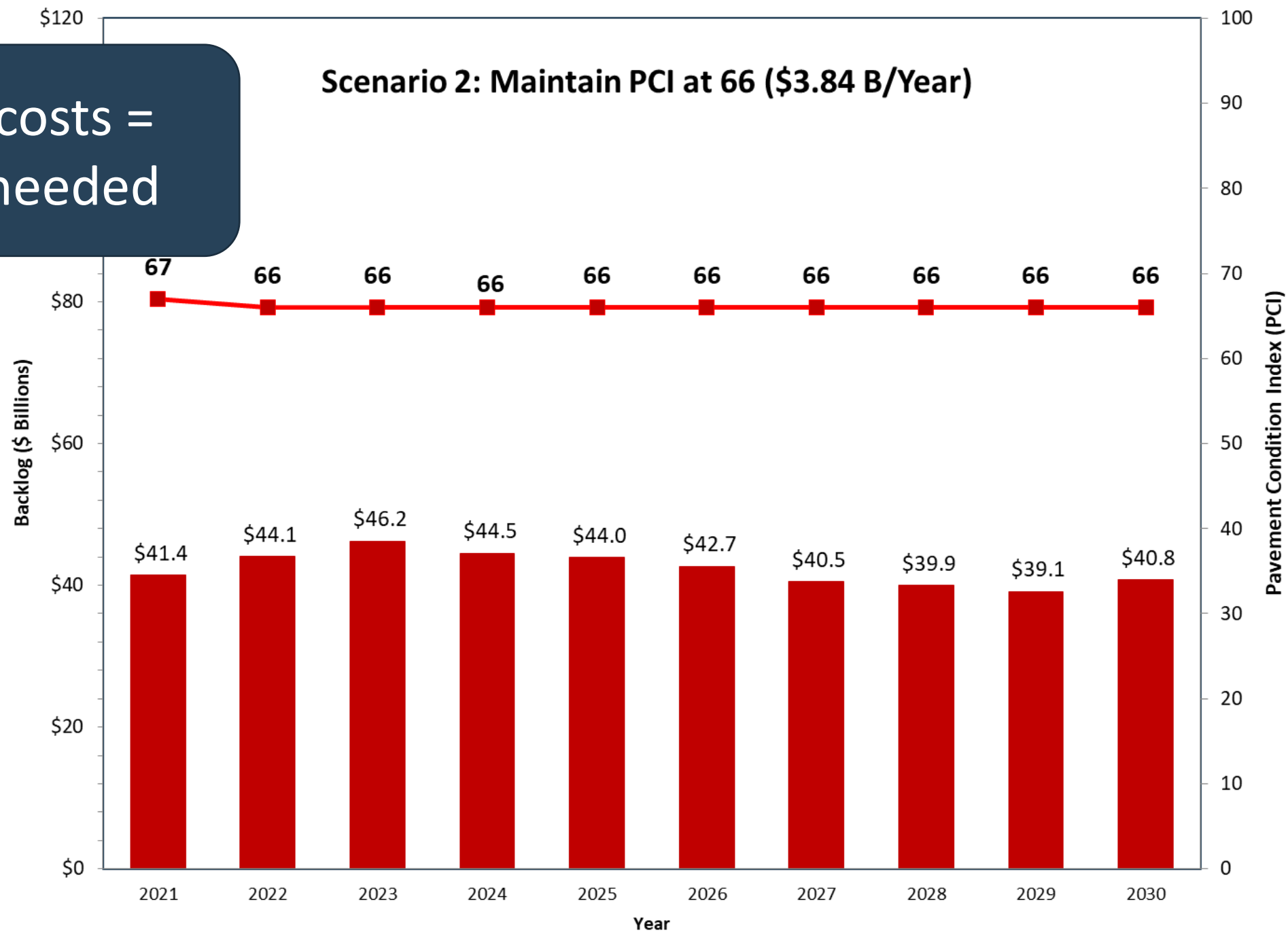


SB1 slowed the decline (by about 4 points)



Higher paving costs =
more funding needed

Scenario 2: Maintain PCI at 66 (\$3.84 B/Year)



Higher paving costs =
more funding needed



Statewide Needs Summary

Transportation Asset	<u>Needs (\$B)</u>
	2018
Pavement	\$ 61.7
Essential Components	\$ 34.1
Bridges	\$ 5.5
Totals	\$ 101.3

<u>2020 (\$B)</u>		
Needs	Funding	Shortfall
\$ 76.0	\$ 38.4	\$ (37.6)
\$ 35.5	\$ 13.4	\$ (22.1)
\$ 7.2	\$ 2.9	\$ (4.3)
\$ 118.7	\$ 54.7	\$ (64.0)

Key Findings

- SB 1 arrested historical deterioration over last 2 years
 - Could be underestimated because PCI lags
 - 2018 was a conservative year due to repeal efforts
 - Not enough data to fully appreciate impacts of SB 1
- Local bridges are still aging
 - Over 4,800 bridges need repair or replacement
 - Dedicated funding has been flat for over 10 years
- Construction costs went up sharply
 - Unintended consequence of SB1?
- Funding shortfall of \$64 billion

To download the report, go to:
www.SaveCaliforniaStreets.org



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