

# **County of Contra Costa Impacts of Prop. 6 on Pavement Conditions**

**September 25<sup>th</sup>, 2018** 



#### **Outline**



- Background on Pavement Management Program
- Current Pavement Condition & Unfunded Backlog
- Funding Analysis
  - Impact of Prop. 6







- A tool to help make cost-effective decisions
- Answers 4 main questions
  - What does County own/maintain in road network?
  - What condition is it in?
  - What repairs are needed and when?
  - How much is required to maintain or improve streets cost-effectively?
- StreetSaver® software utilized





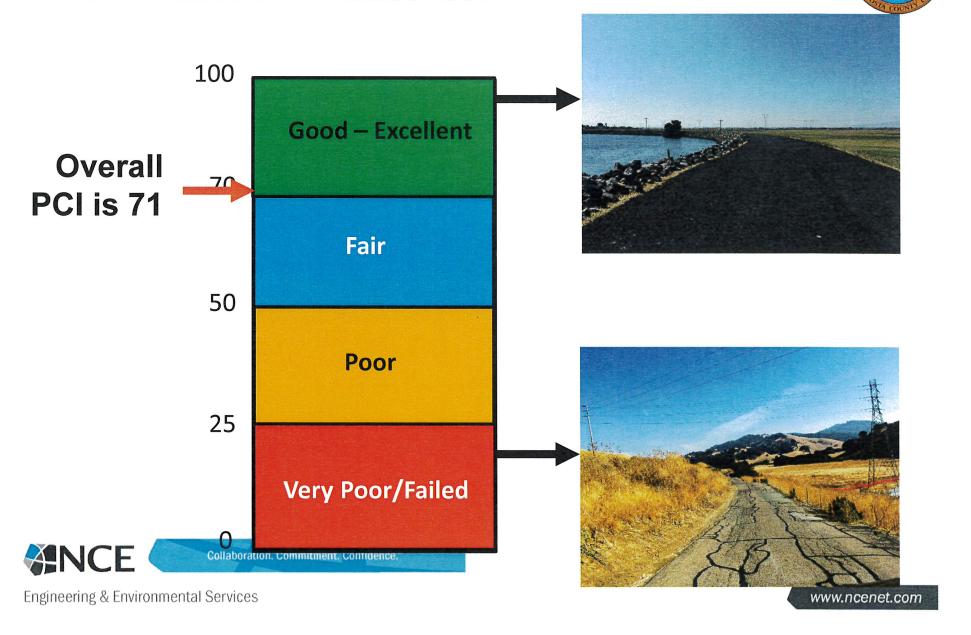
#### **Paved Road Network**



Functional Class	Centerline Miles	Lane Miles	% of the Entire Network (by Area)
Arterials	190.0	439.1	noillien!
Collectors	99 7	0015.8	Millie
Resident	due is	29	48.5%
Arterials Collectors Resident	5.6	8.8	_
Total	649.1	1,331.3	100%

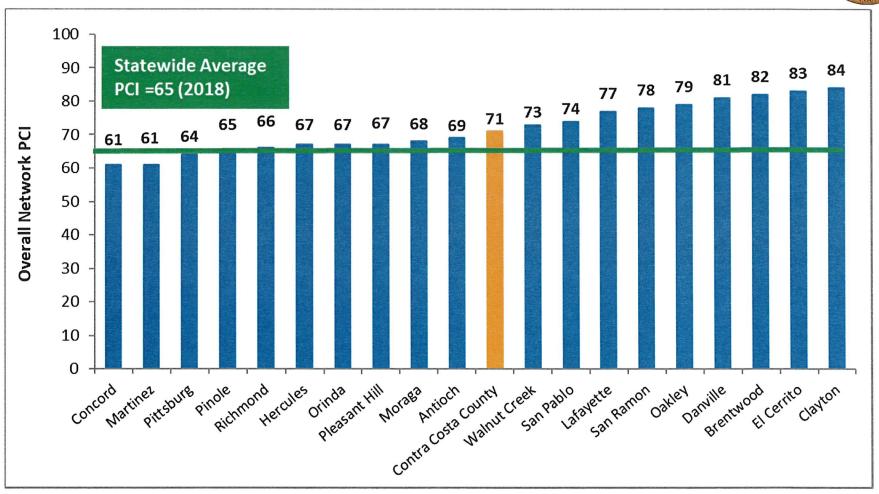


#### **How is Condition Measured?**



# **PCIs of Neighboring Agencies**



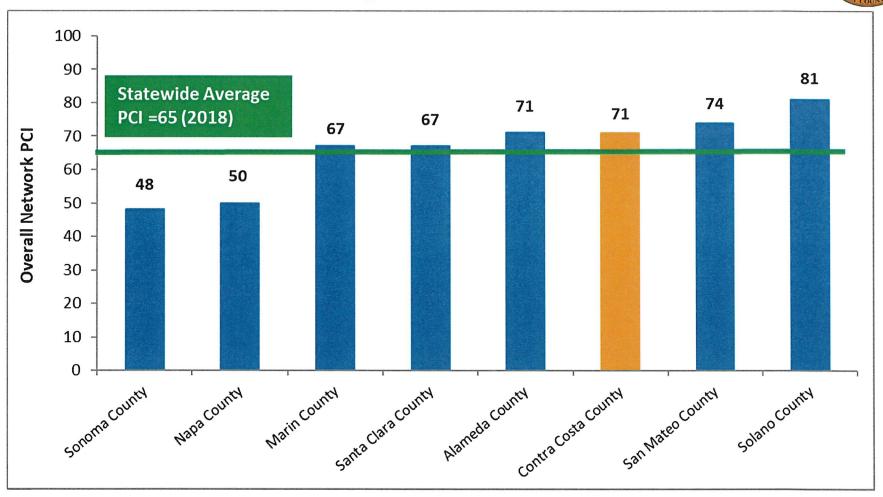


\*Data from 2018 California Statewide Local Streets and Roads Needs Assessment Draft Report



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# **PCIs of Counties in Bay Area**



\*Data from 2018 California Statewide Local Streets and Roads Needs Assessment Draft Report

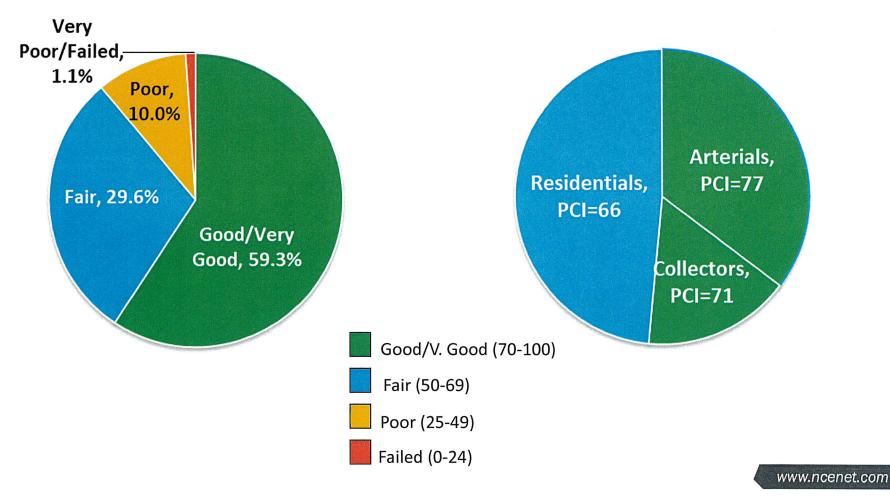


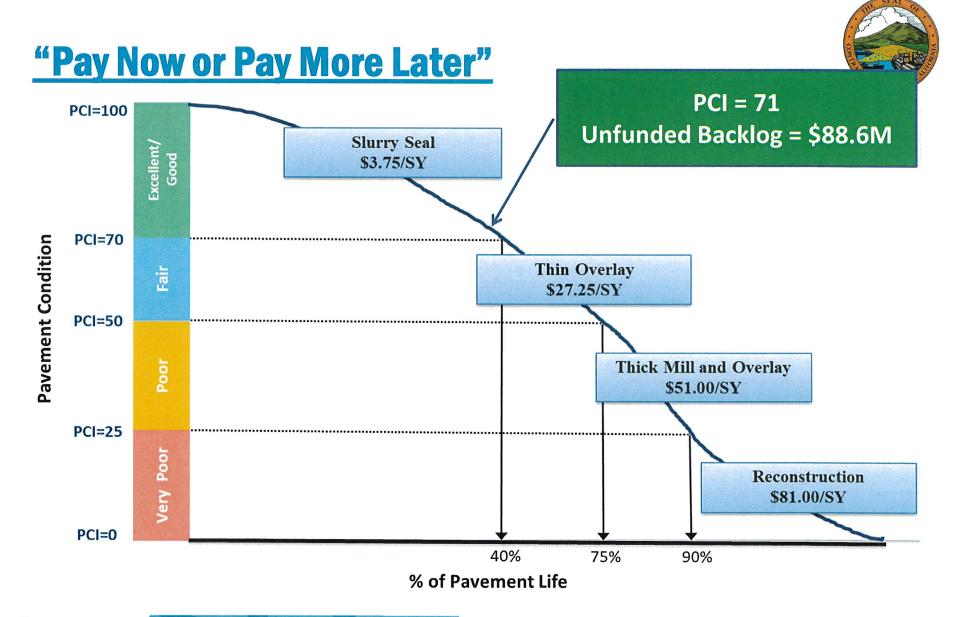
#### **PCI Breakdown**



- 59% is in good condition
- 11% is poor/very poor

 Arterials and Collectors are in better condition









# **Unit Costs & Unfunded Backlog**

Condition Category	PTAP-18 Treatment/Cost (2015 unit cost)	Updated Treatment/Cost	Increase/ Decrease %	Total Network % Area
ı	Slurry Seal: \$2.65/sy	Slurry Seal: \$3.25/sy	个23%	59.3%
11/111	Cape Seal: \$7.08/sy	Rubber Cape Seal with Digouts: \$11.25	个59%	29.6%
IV	AC Overlay: \$43/sy	Thick Mill and Overlay: \$34/sy	<b>↓21%</b>	10.0%
V	Reconstruction: \$85/sy	Reconstruction: \$55.25/sy	<b>↓35</b> %	1.1%

<sup>\*4&</sup>quot; Digouts (\$10/sf), and 6" Digouts (\$12/sf)

#### Unfunded Backlog - \$88.6M

- Unchecked Transitional Windows in StreetSaver
- It was \$49.3 M in PTAP-18 Update



#### **SB1 – Gas Tax Funding**

 Senate Bill 1 (the Road Repair and Accountability Act) was signed in 2017

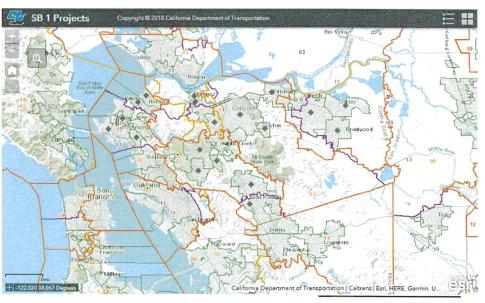


CSAC estimated:

**\$14.2M** for Contra Costa County







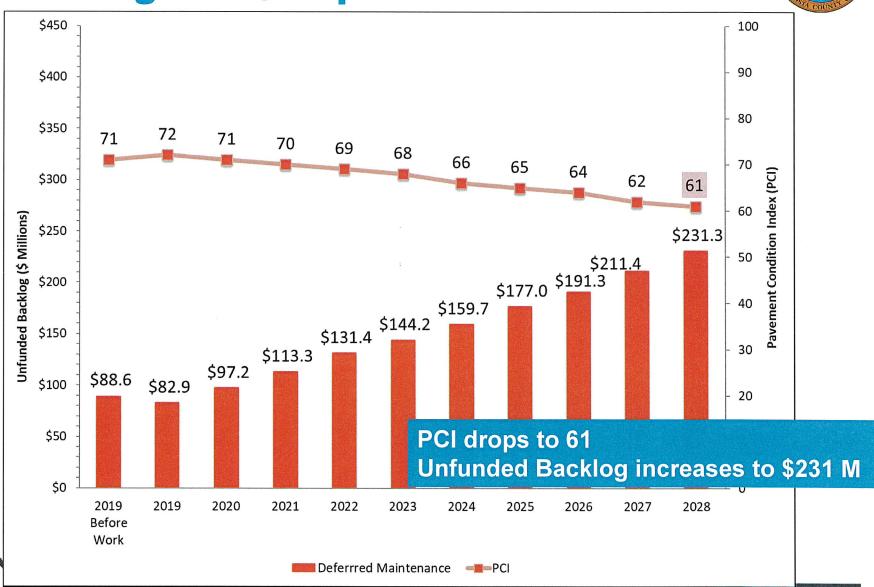
# **Funding Scenarios**



- Scenario 1: Funding Level \$6M/Year
  - Existing Annual Funding: \$5M to \$6M
- Scenario 2: Funding Level \$10M/Year
  - Additional SB1 Funding: \$3M to \$4M
  - Existing Annual Funding + SB1: \$8M to \$10M
- Scenario 3: Maintain PCI at 72
  - Required \$15.4M/Year

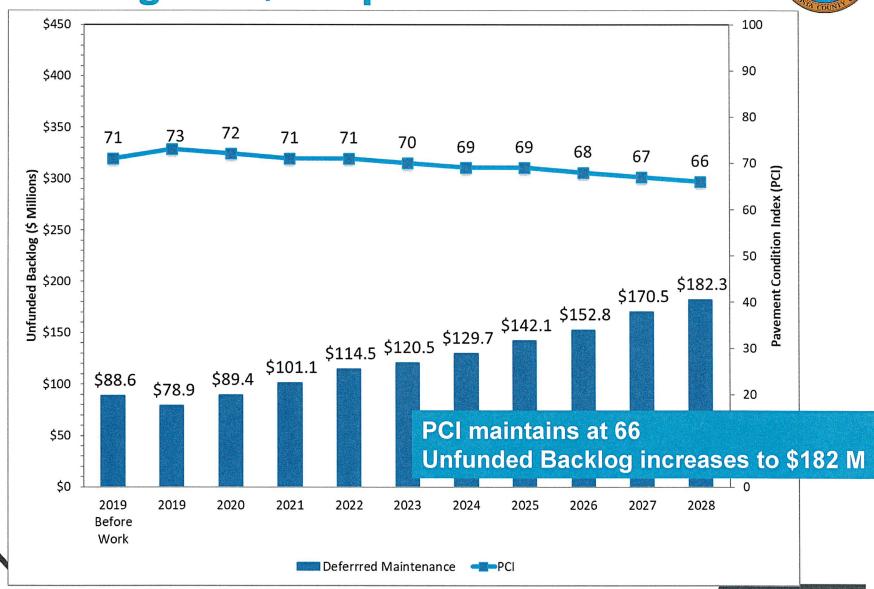


### **S1: Funding Level \$6M per Year**

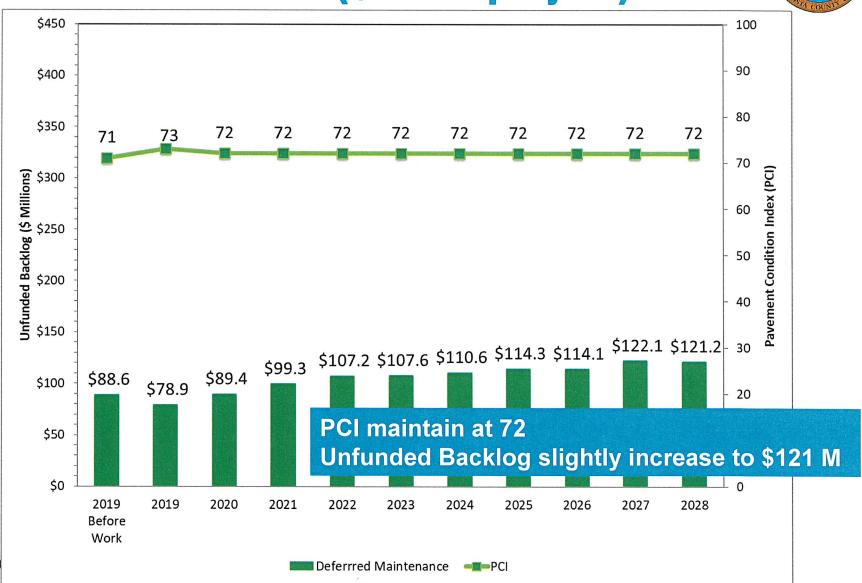




## **S2: Funding Level \$10M per Year**



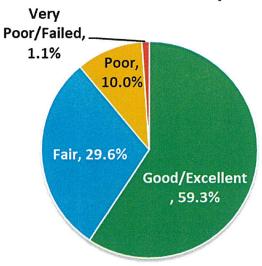
# S3: Maintain PCI at 72 (\$15.4M per year)



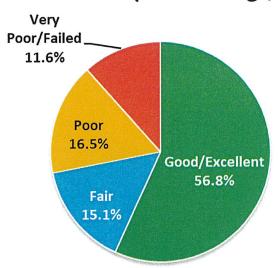




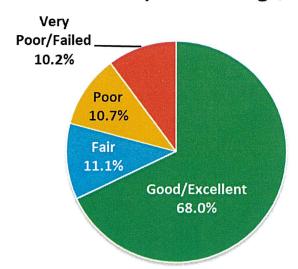
**Current Condition (2018)** 



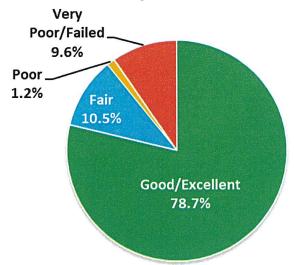
2028 Condition (S1: Funding \$6M/yr)



2028 Condition (S2: Funding \$10M/yr)



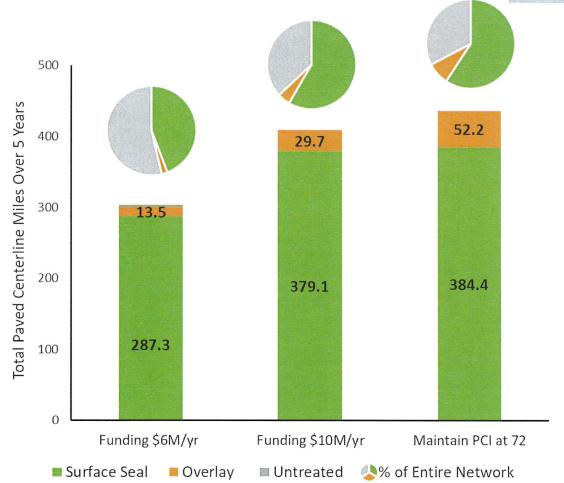
2028 Condition (S3: Maintain PCI at 72)



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# Paved Centerline Miles over 5 years

Scenarios	Total Paved CL Miles	% of Entire Network
Funding \$6M/yr	300.7	46.3%
Funding \$10M/yr	408.8	63.0%
Maintain PCI at 72	436.6	67.3%



#### **Conclusion**



- County has a substantial investment in road network (\$915.8 million)
- Overall network is in "Good" condition; PCI = 71
- Existing budget (\$6M/year) is not sufficient
  - PCI will deteriorate to 61 in 10 years
  - Deferred maintenance will grow to \$231 million
  - 28% of pavements will be poor/very poor



#### **Conclusion**



- Funding \$10M/year
  - PCI will decrease to 66 by 2028
  - Total 409 centerline miles road will be sealed or overlaid over the first 5 years
- Maintain PCI at 72
  - Required \$15.4M/year







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