



County of Amador "State of the Roads"

Presented by:
Margot Yapp, P.E.
November 24th, 2015




Collaboration. Commitment. Confidence.™

What is a Pavement Mgmt. Program?




- ❖ 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 money is required to maintain or improve streets cost-effectively?
- ❖ StreetSaver® software utilized




2

Paved Road Network






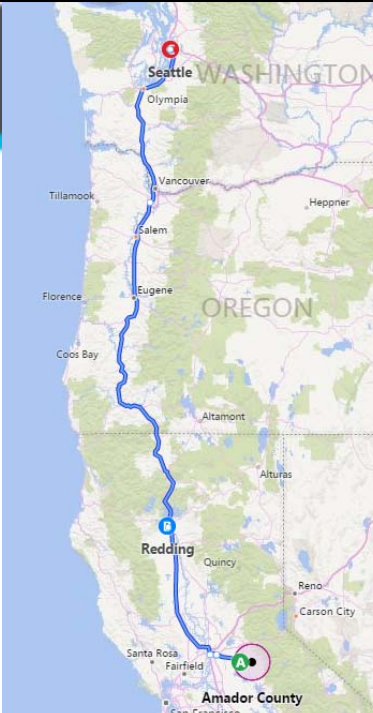
Functional Class	Centerline Miles	Lane Miles	% of the Entire Network (Area)
Arterial			
Collector			52.8
Local		386.1	45.6
Other (Airport)	309,400 sf		0.7
Total	384.5	768.8	100%

Asset value is \$121 million!

3



How Big is Road Network?

-  769 lane miles
-  Amador to Seattle, WA
-  At 65 mph it takes 12 hours to drive this distance





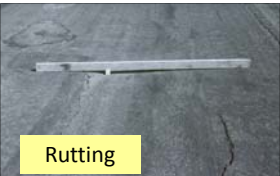
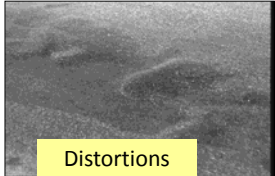




4

Types of Pavement Distresses




5

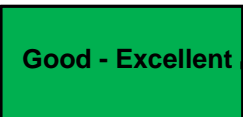





 <p>Alligator cracking</p>	 <p>Longitudinal or transverse cracking</p>	 <p>Patches</p>
 <p>Block cracking</p>		 <p>Rutting</p>
 <p>Distortions</p>		 <p>Weathering & raveling</p>




How is Condition Measured?



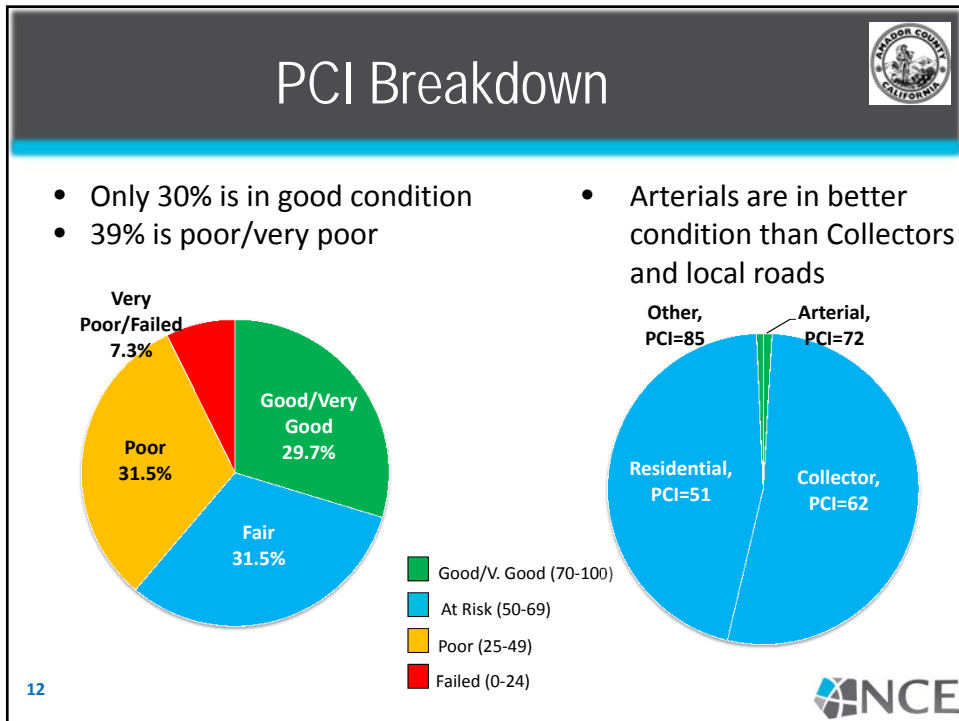
6

	100		→	
	70			
County is at 57	50			
	25		→	
	0			

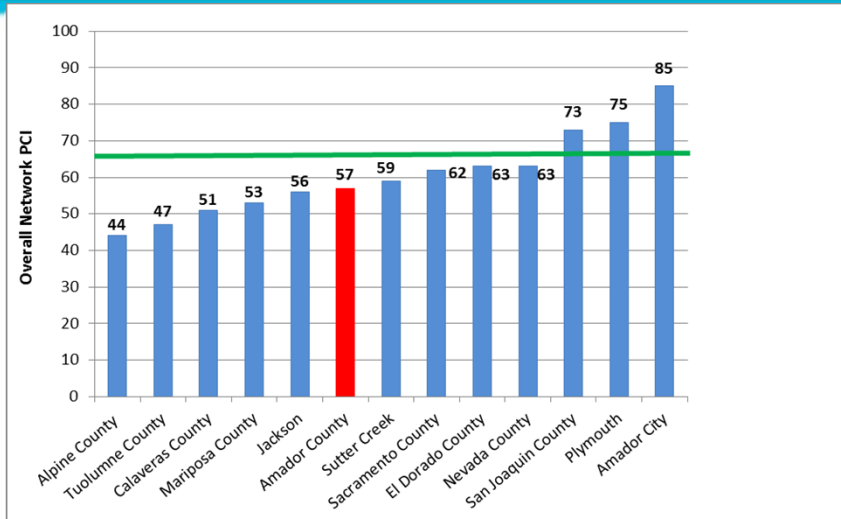








How do Other Counties Compare?

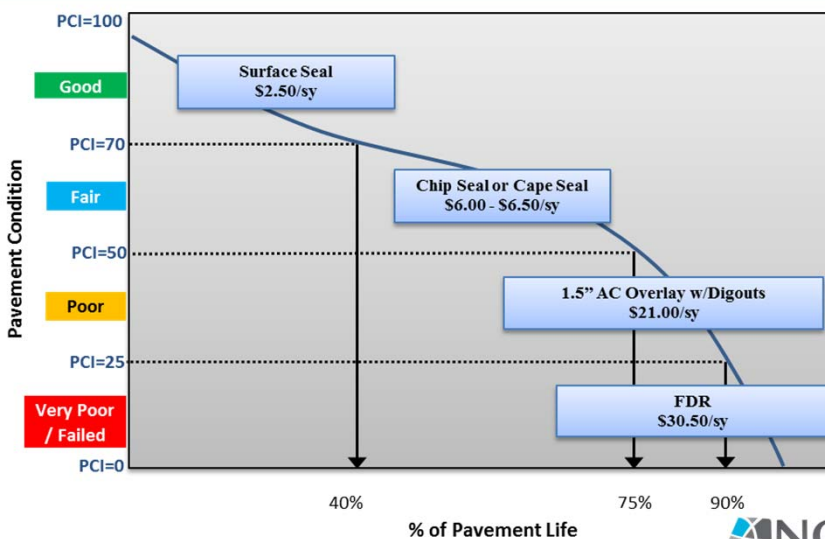


13

Data from 2014 Statewide Needs Survey

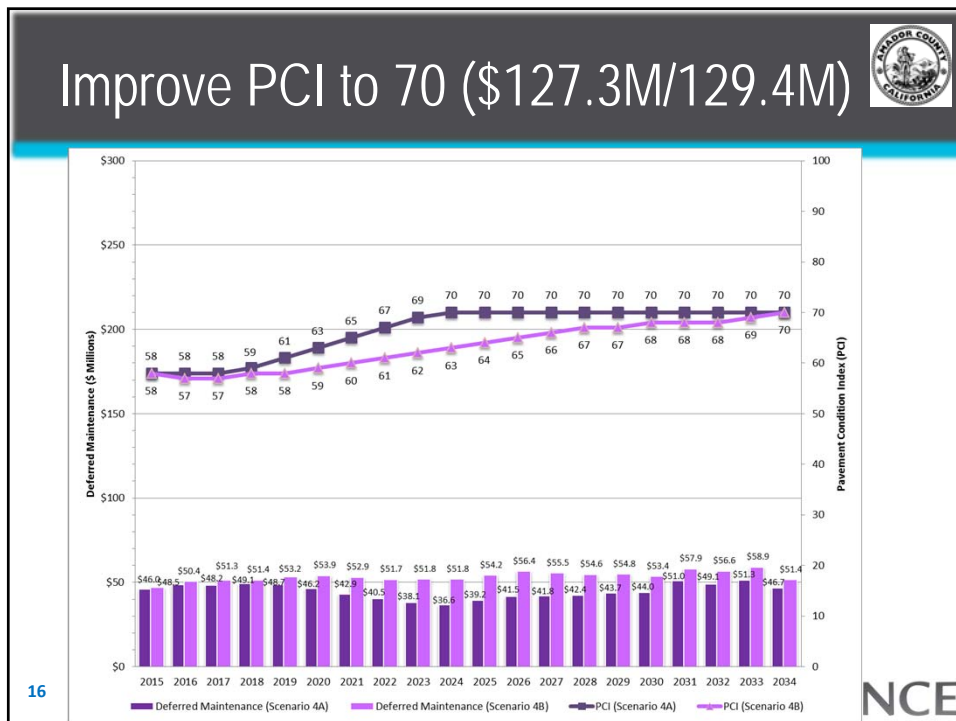
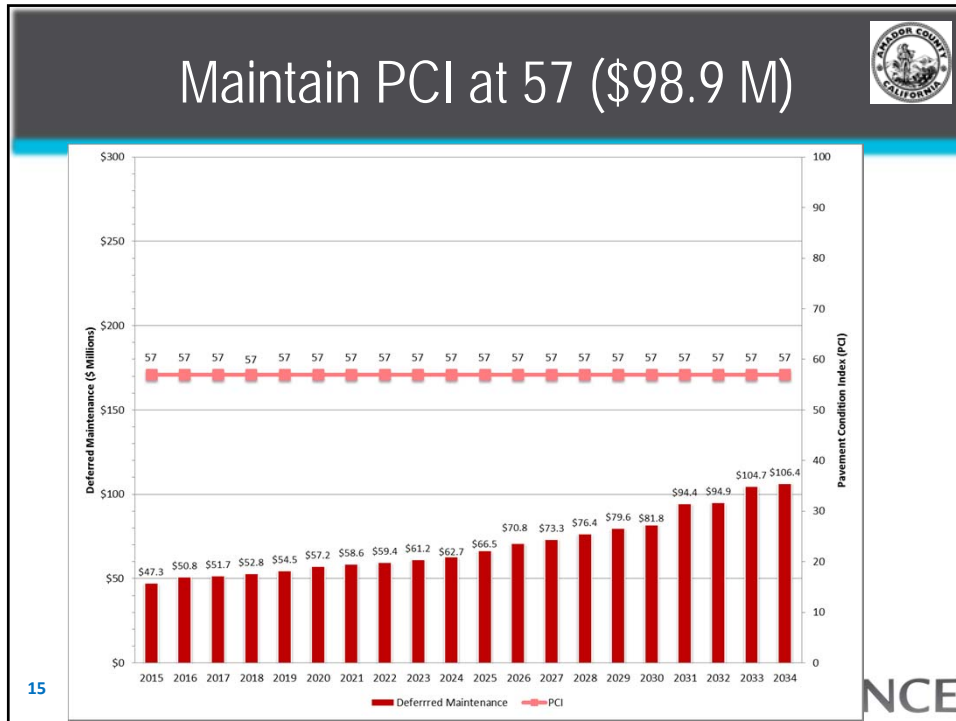


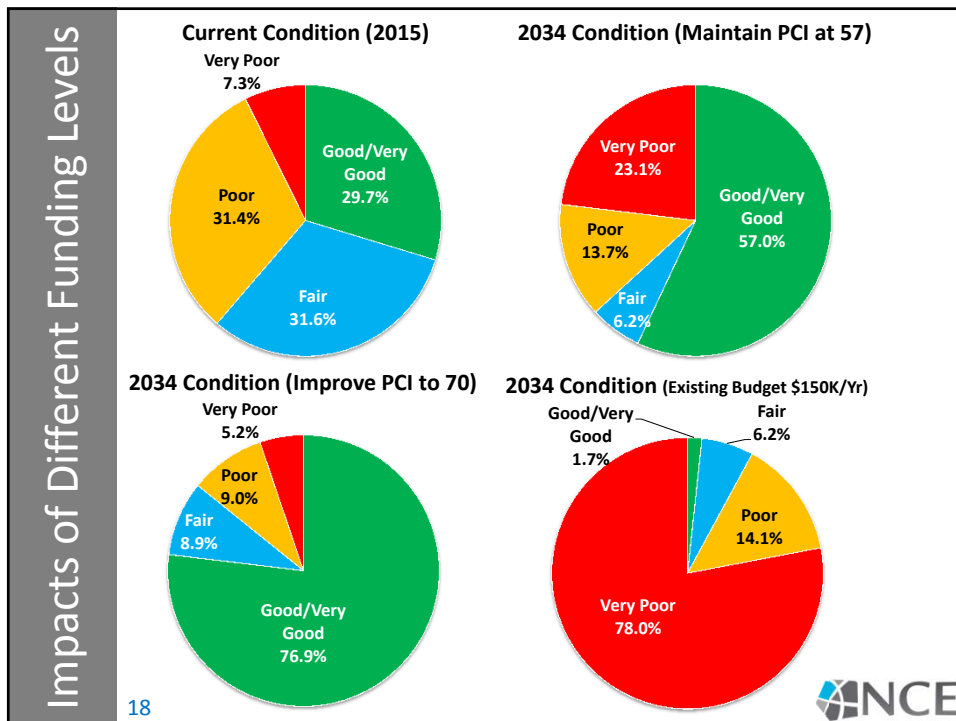
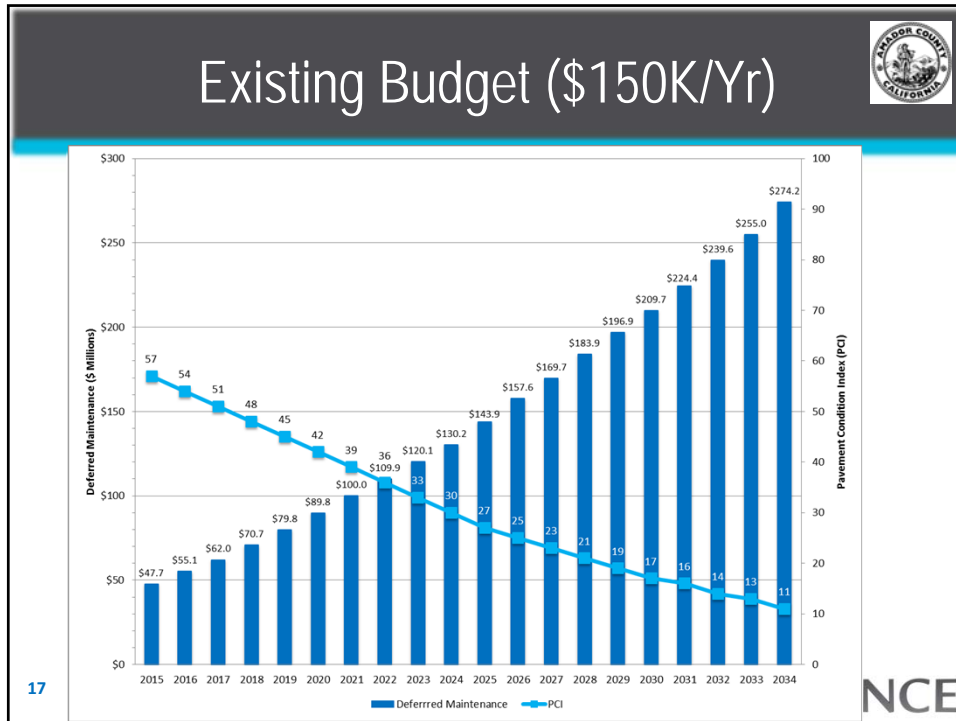
"Pay Now or Pay More Later"



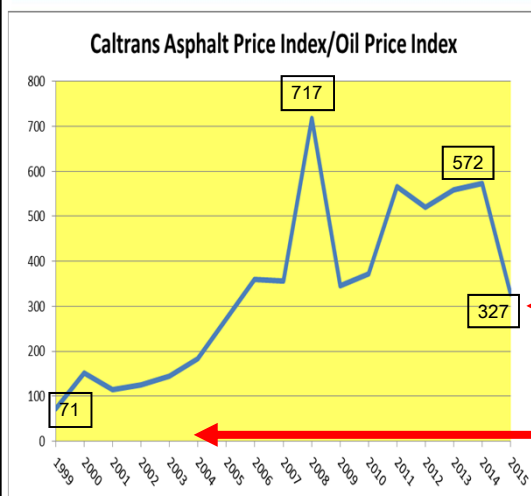
14







How Did We Get Here?



- Pavements are deteriorating rapidly
- Asphalt prices have increased almost five-fold since 1999
- Funding has not kept up

19



Conclusions



- Amador County has a substantial investment in road network (\$121 million)
- Network is in "at risk" condition; PCI = 57
- Existing budget (\$150 K/year) is not sufficient
 - Roads will deteriorate to 11 by 2034
 - Unfunded backlog grows to \$274 million!
 - Very poor roads grow 10 times to 78%!!

20



Policy Considerations



- ▣ Ensure acceptable quality of life for residents, visitors & businesses
 - Smoother rides
 - Lower maintenance cost for vehicles
- ▣ Ensure taxpayer's investment in transportation infrastructure is protected

21



Questions?

Margot Yapp, PE
Vice President
510.215.3620
myapp@ncenet.com

22



Collaboration. Commitment. Confidence.™