

Sonoma County, California Pavement Preservation Program

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“It’s not the wealth of a nation that builds roads, but the roads that build the wealth of a nation”



JOHN F. KENNEDY



Presentation Outline

- Key Points from Road Ahead Report
- Prioritization Principles
- Public Engagement
- Creative Financing
- Lessons Learned





The Road Ahead

**The 2008 Roads Report
Paving the Way to Our Future**



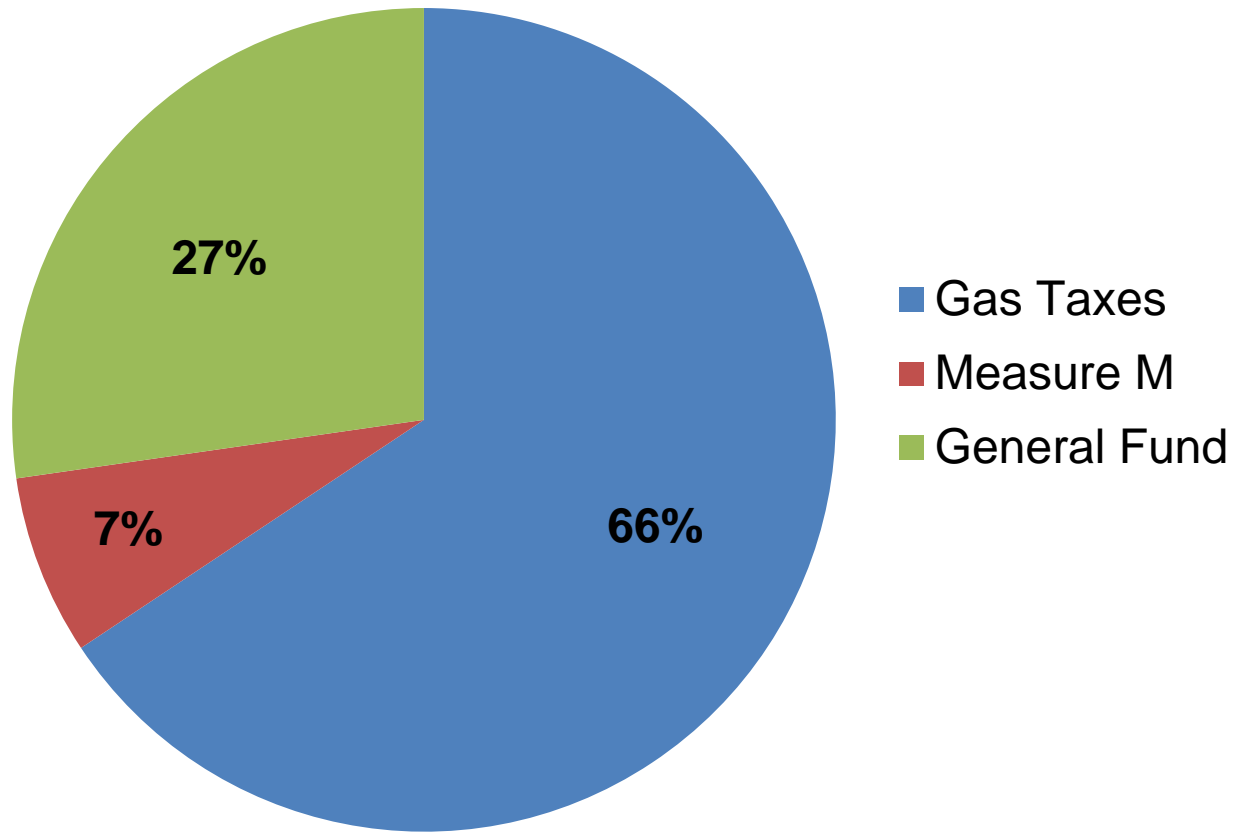
Key Points

- 1. Road System is County's Largest Asset**
- 2. Transportation Revenues are Woefully Inadequate**
- 3. Road Maintenance Activities are Interdependent**
- 4. Road Maintenance Service Levels are Projected to Worsen**
- 5. Status Quo will Result in the Need for Total Reconstruction of the Road System**

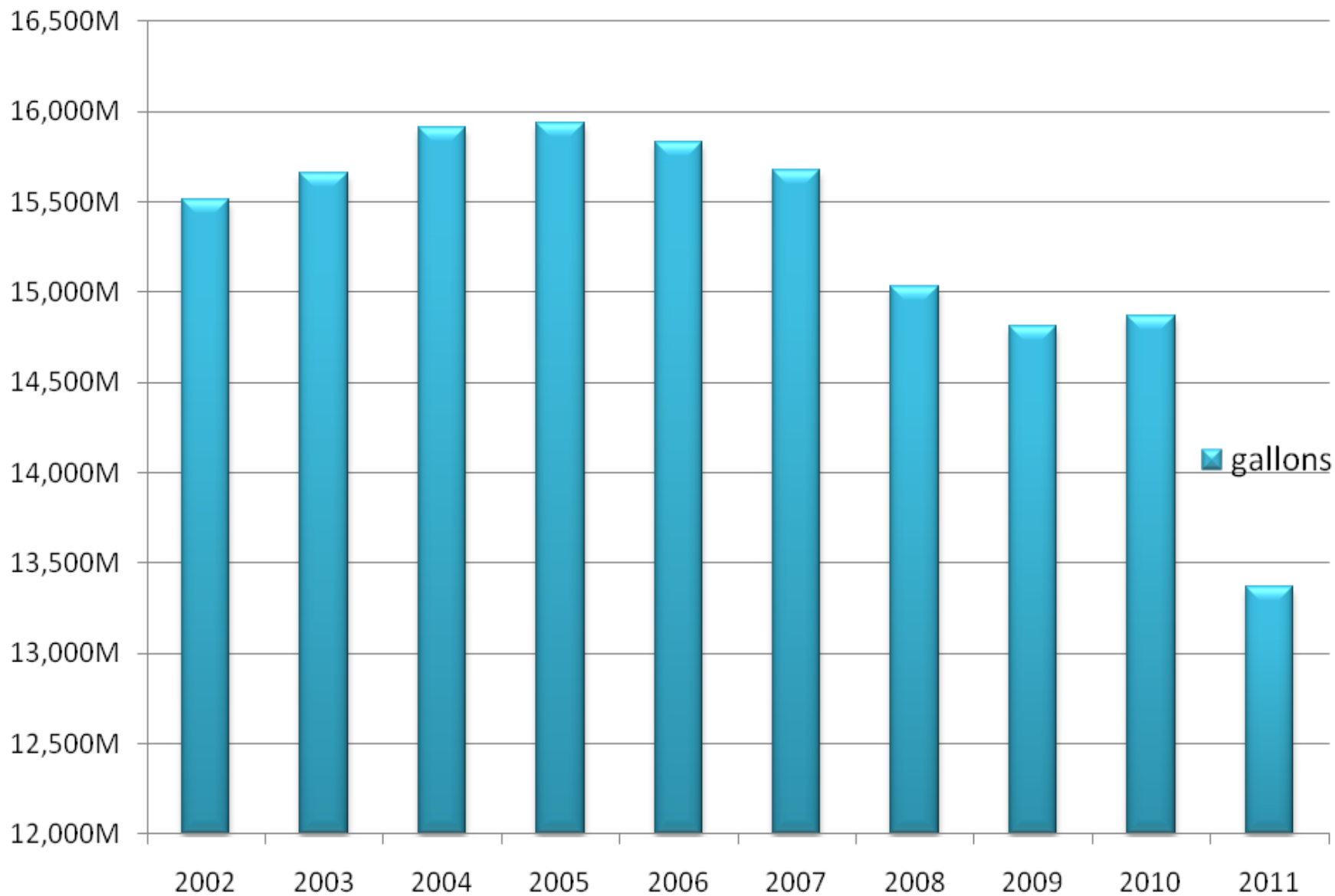


Operations Revenue

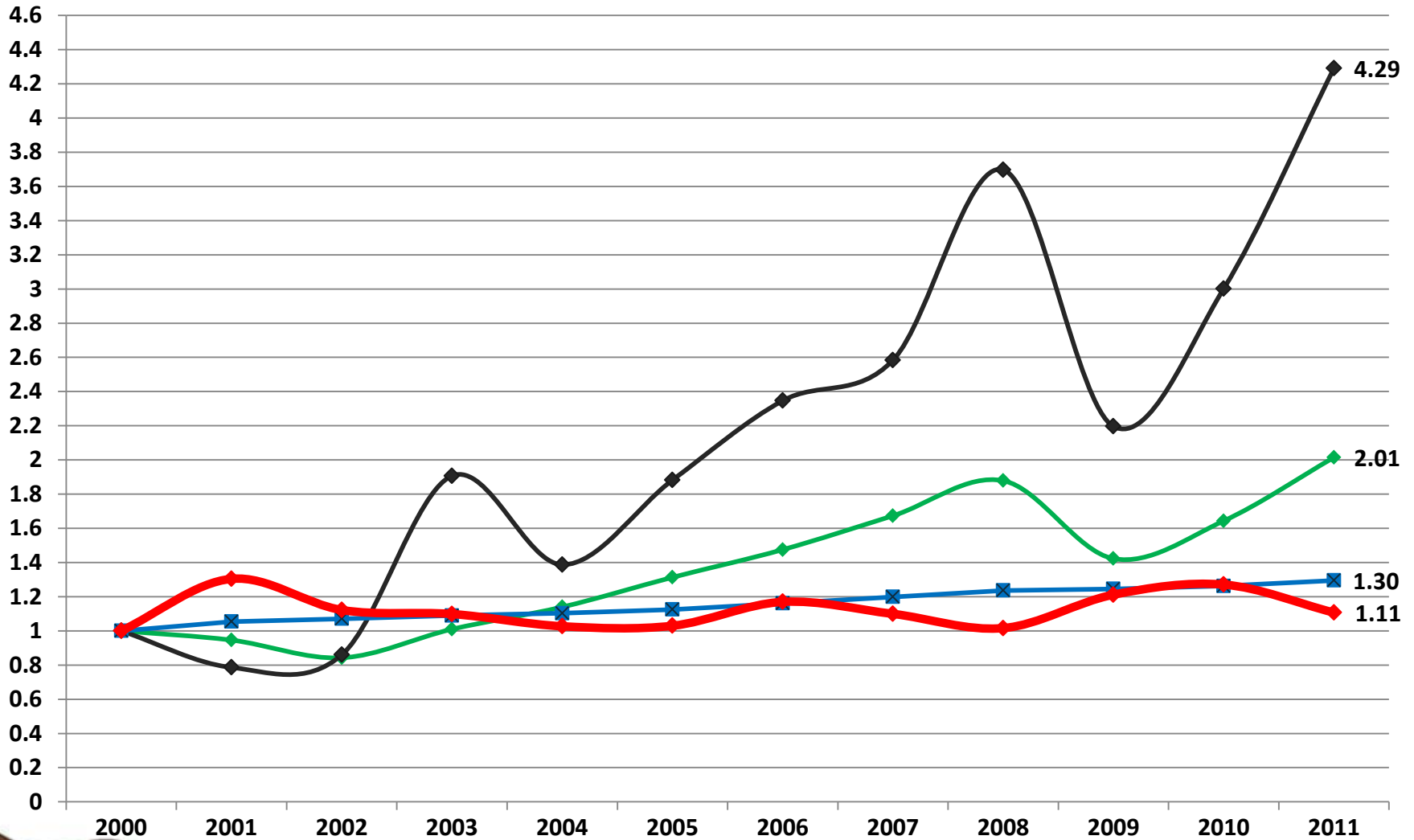
\$19M Annual Average



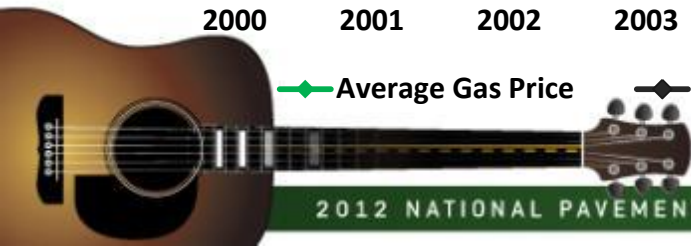
Annual State Gas Consumption

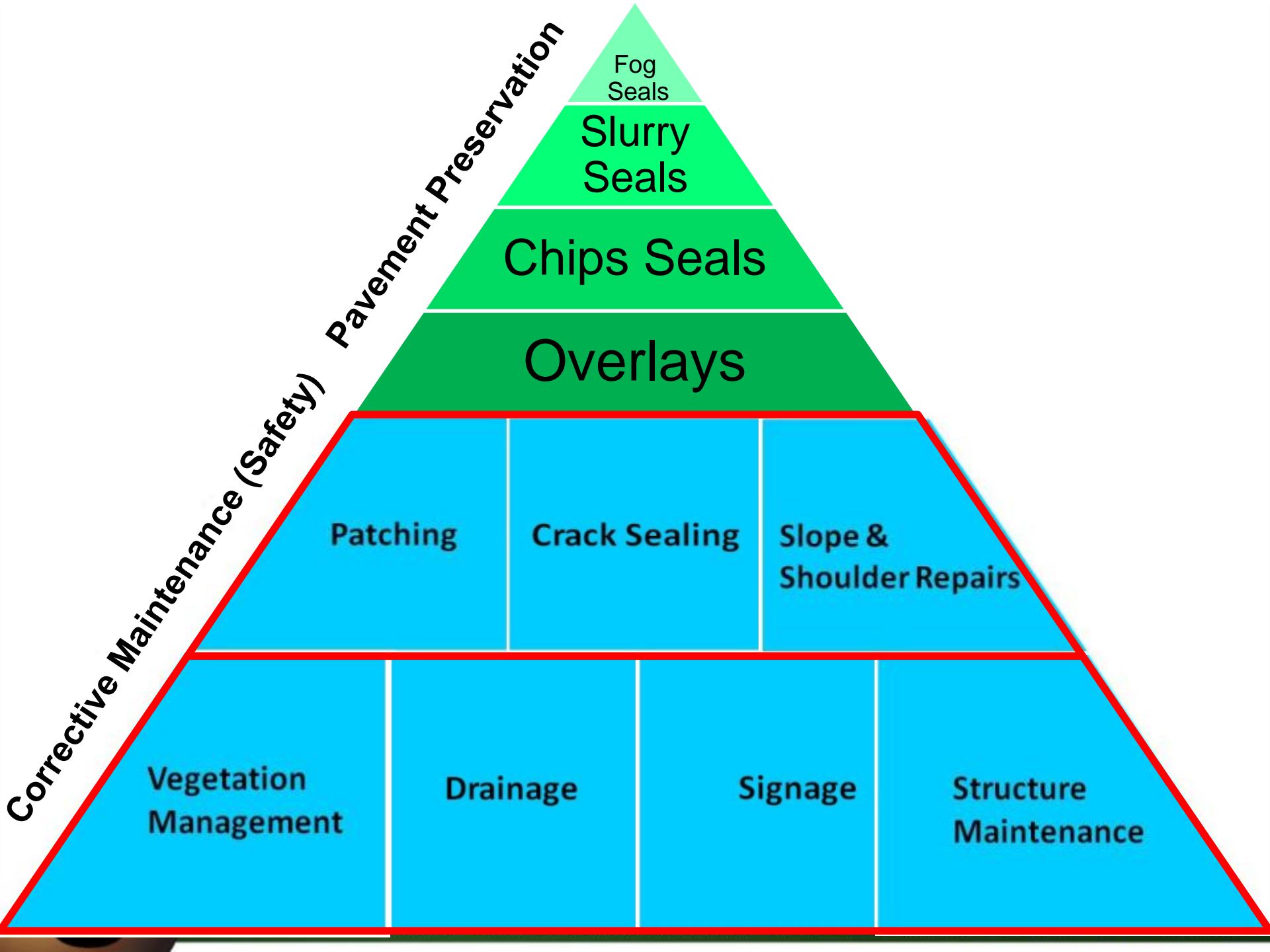


Average Gas, Asphalt, CPI & Operational Revenue

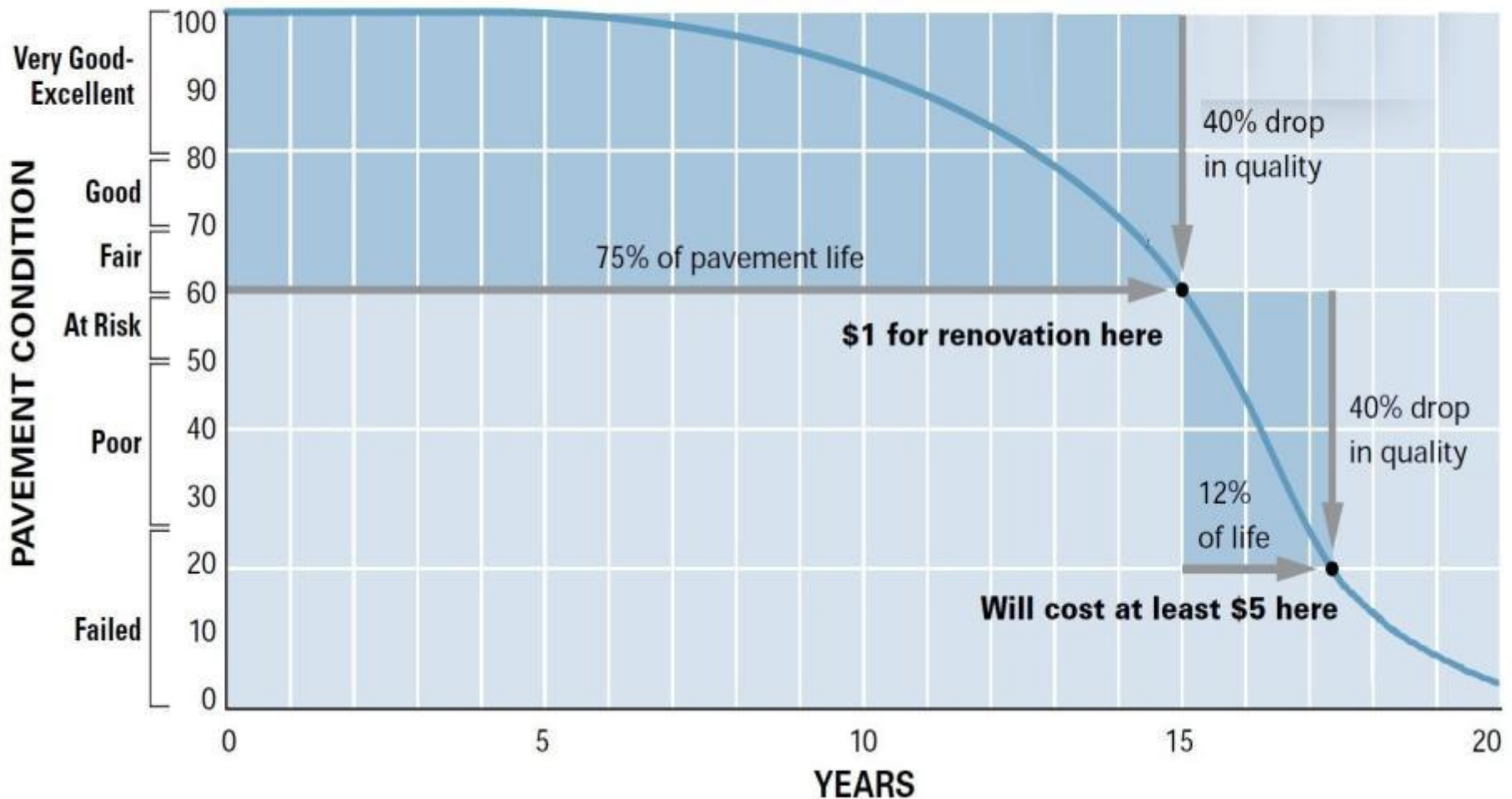


◆ Average Gas Price ◆ Average Asphalt Price ◆ Average CPI ◆ Operational Revenue

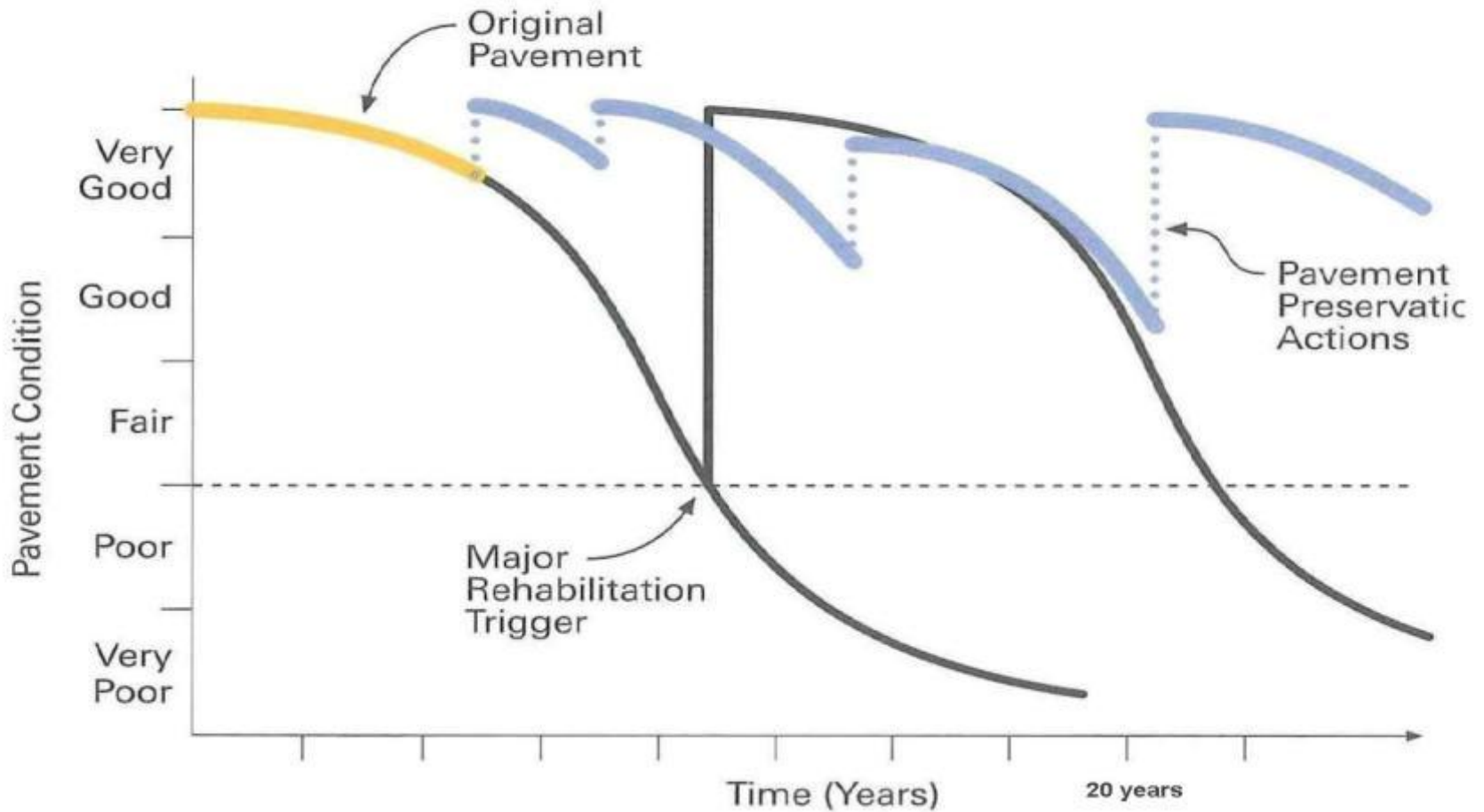




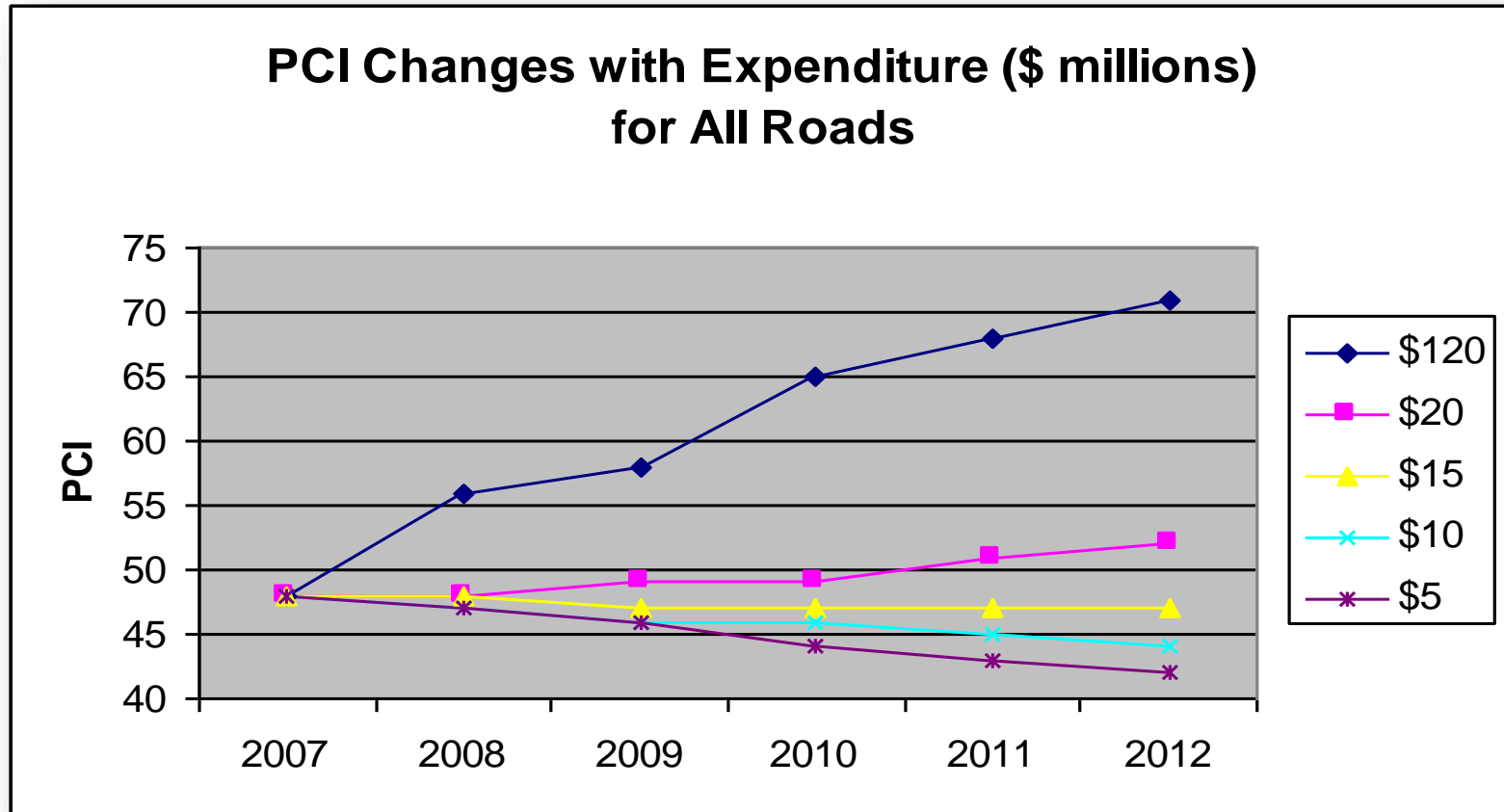
Pavement Life Cycle



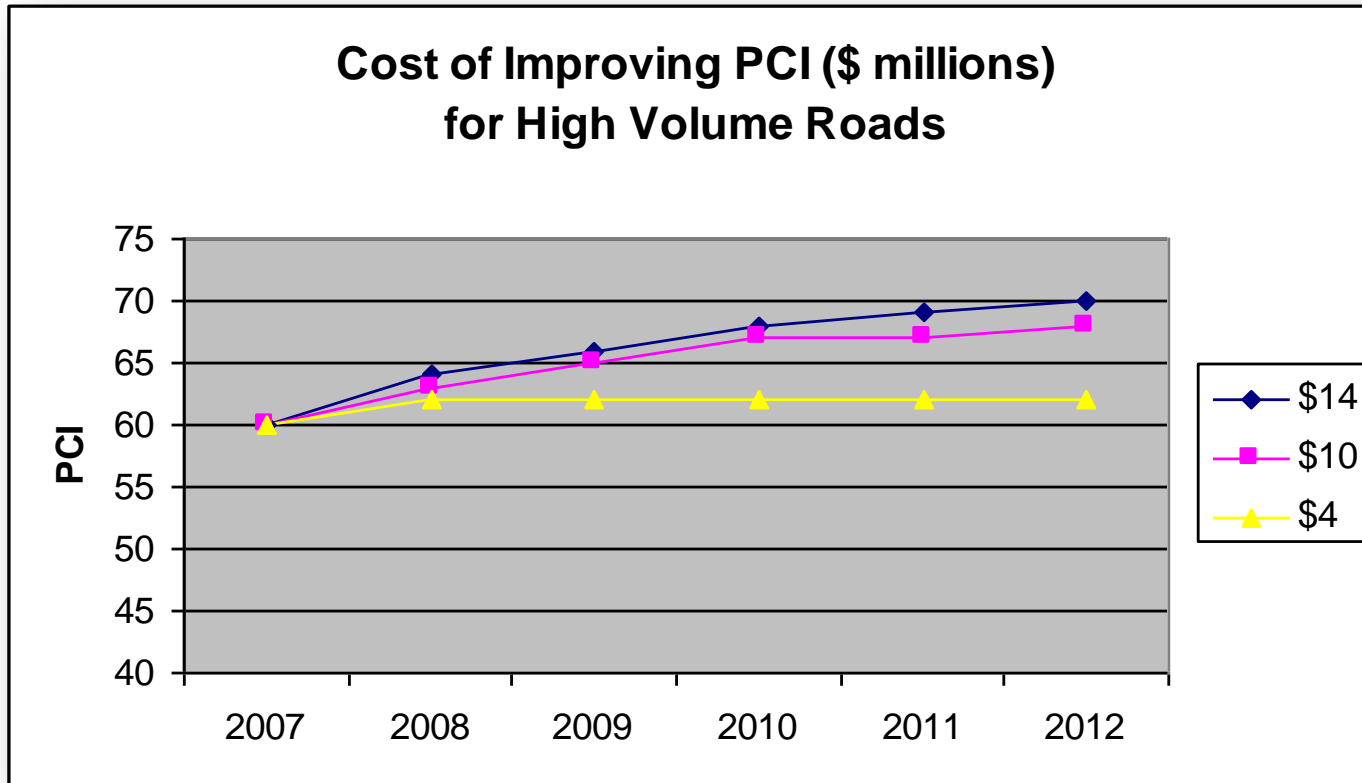
The Pavement Preservation Concept



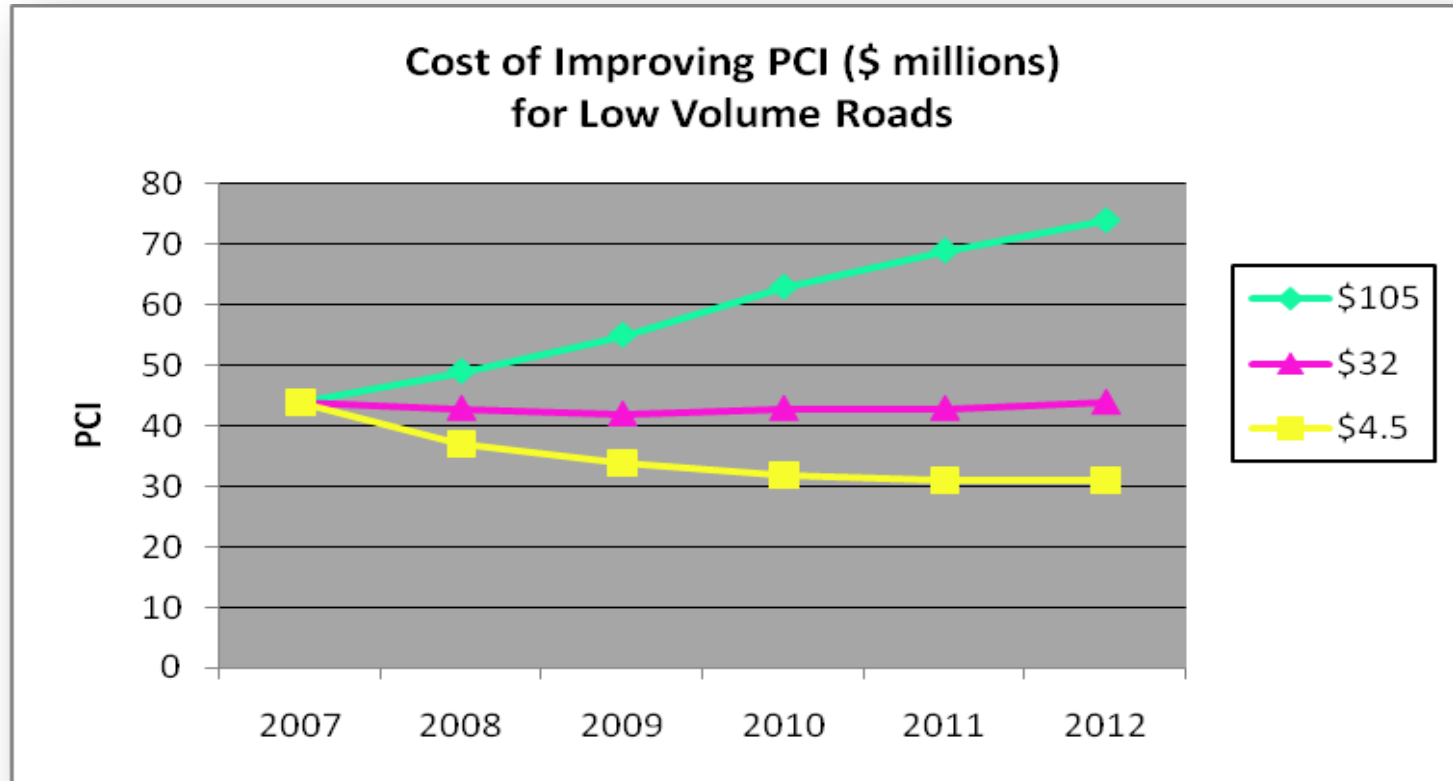
Annual Funding Scenarios for Road Network



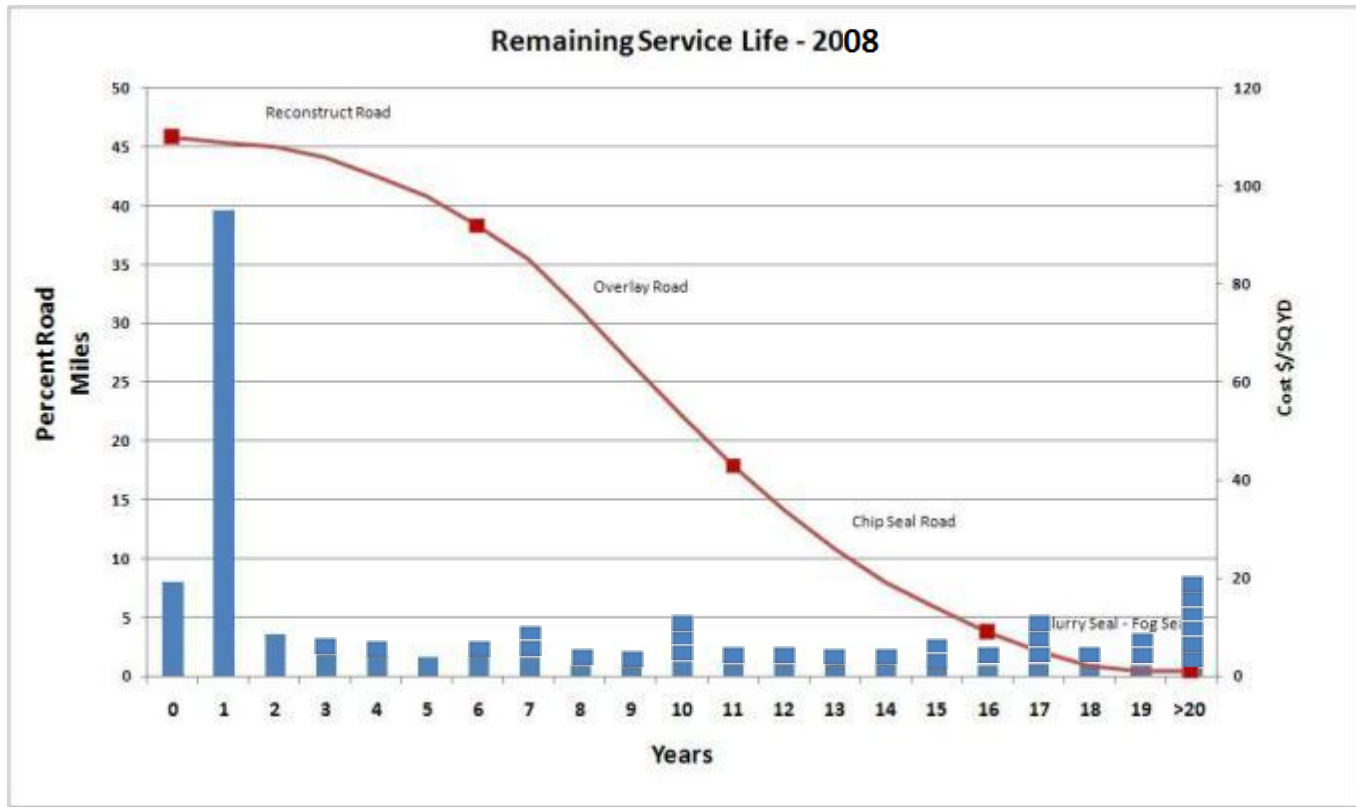
Funding Scenarios for High Volume Roads



Funding Scenarios for Low Volume Roads



Remaining service life in 10 Years



Remaining service life



PCI = 45



Presentation Outline

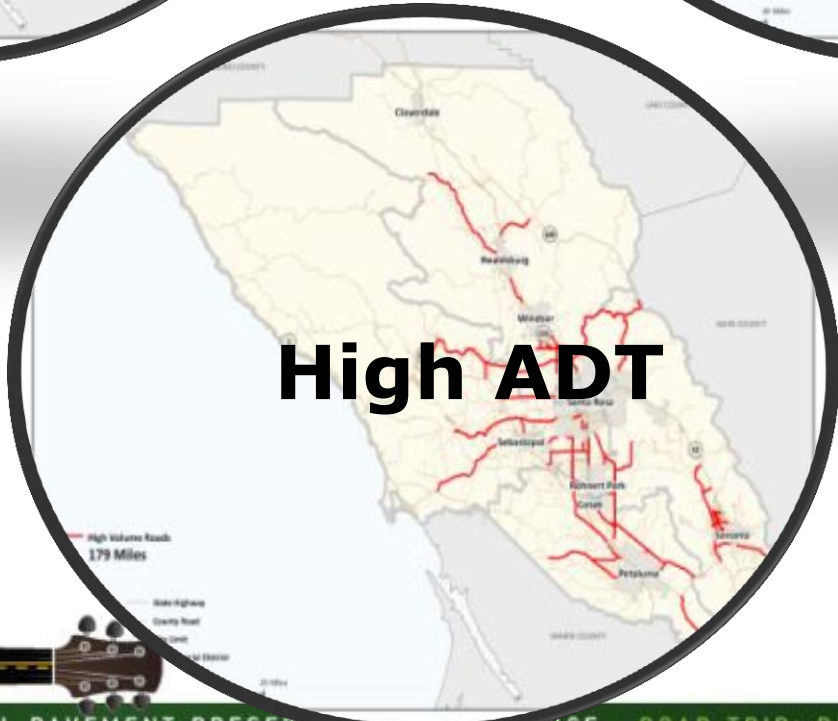
- Key Points from Road Ahead Report
- Prioritization Principles
- Public Engagement
- Creative Financing
- Lessons Learned



Why Prioritize?

- We want to provide the highest level of service to the most users.
- This can be accomplished by focusing the department's resources on the most highly used and most regionally significant portion of our road network.
- For the remainder of the system, stakeholders can influence what level of service they want and are willing to finance.







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Public Engagement

A. Education/Awareness Campaign

- Board Presentations
- Community Meetings
- Media Coverage

B. Road Advocacy Group

- Website
- Newsletters
- Election Forums



County Position

- **This problem is not new, pavement condition has been in decline for some time**
- **This problem is not unique to Sonoma County**
- **The Board understands the issue and has made it a high priority**
- **The Board has already dedicated \$2.2 M in new funds to increase pavement preservation activities**



Ad-Hoc Committee

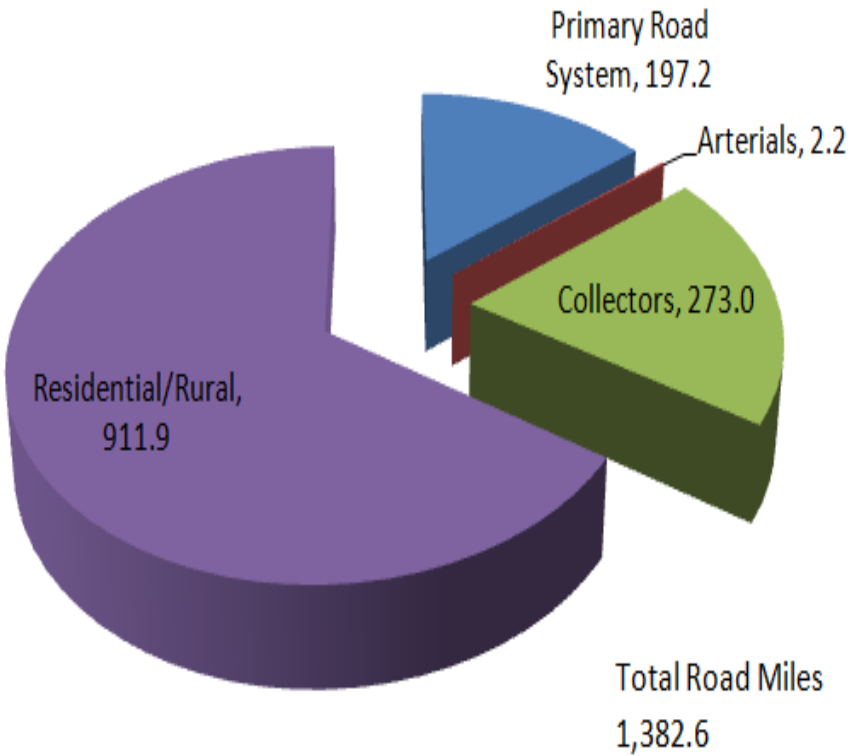
- **Board assigned an Ad-Hoc committee to investigate and review options.**
- **Ad Hoc Goal was to develop a comprehensive plan which would address what could be done for all Sonoma County roads**



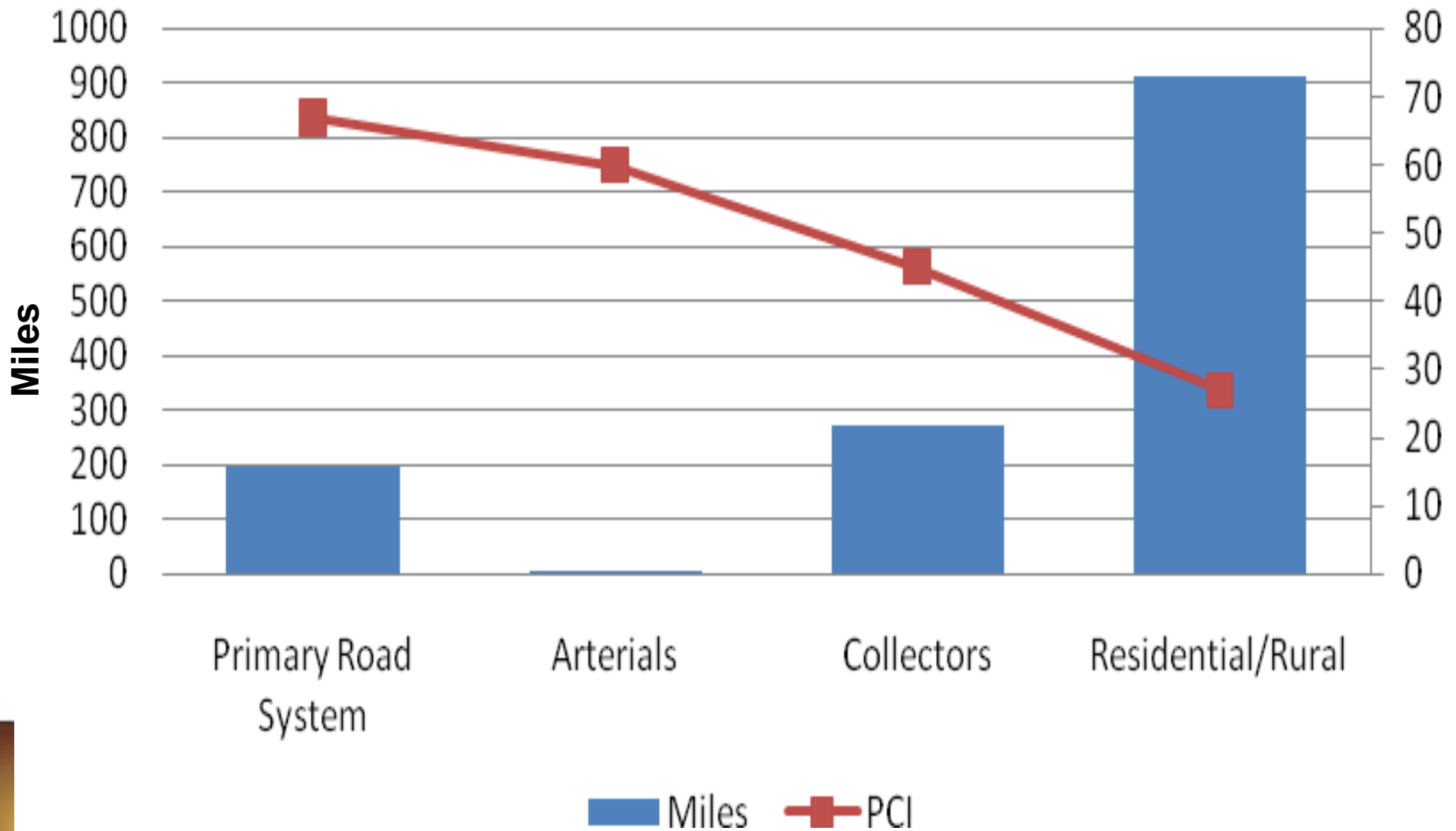
Miles of County Maintained Roads by Classification

Classification	Replacement Value
Primary Road Network	\$ 1.25 Billion
Arterial	\$ 46.1 Million
Collector	\$ 812.3 Million
Residential/Rural	\$390.1 Million
Total	\$ 2.5 Billion

Table 1(a)
Replacement Value of County Roads



PCI by Road Classification



System Assessment

	Excellent PCI 90-100	Very Good PCI 80-89	Good PCI 70-79	Fair PCI 60-69	At Risk PCI 50-59	Poor PCI 25-49	Failed PCI 0-24	Total
Primary Road Network	63.38	25.17	26.80	33.70	24.16	24.03	-	197.24
Arterials	-	0.42	-	0.59	-	1.20	-	2.21
Collectors	9.27	13.56	35.77	38.40	64.83	90.70	18.69	271.20
Residential/Rural	16.44	24.13	57.15	96.89	101.21	381.60	234.55	911.97
	89.09	63.28	119.72	169.57	190.19	497.53	253.23	1382.62

	Excellent PCI 90-100	Very Good PCI 80-89	Good PCI 70-79	Fair PCI 60-69	At Risk PCI 50-59	Poor PCI 25-49	Failed PCI 0-24	Total
Primary Road Network	\$ -	\$ 282,316	\$ 813,956	\$ 2,262,580	\$ 1,819,395	\$ 1,607,464	\$ 6,534	\$ 6,792,245
Arterials	\$ -	\$ 33,248	\$ -	\$ 5,096	\$ -	\$ 121,021	\$ -	\$ 159,365
Collectors	\$ 227,571	\$ 451,782	\$ 1,544,586	\$ 2,631,304	\$ 5,308,429	\$ 13,560,961	\$ 2,484,882	\$ 26,209,515
Residential/Rural	\$ -	\$ -	\$ 2,027,065	\$ 5,082,723	\$ 8,483,099	\$ 48,513,051	\$ 27,930,815	\$ 92,036,753
	\$ 227,571	\$ 485,030	\$ 3,571,651	\$ 7,719,123	\$ 13,791,528	\$ 62,195,033	\$ 30,415,697	\$ 118,405,633



Roads Vital for Tourism and Agriculture

Primary Roads (Currently Funded)

Road Name	Attraction	Road ID	From PM	To PM	Length (mi)	Avg Annual Cost for PCI 68
Adobe Rd	Ranch Petaluma Adobe	5602	10.00	19.57	9.57	36,549.80
Airport Blvd	Charles Shultz Sonoma County Airport / Museum	8803A	10.20	12.33	2.13	433,110.10
Alexander Valley Rd	Alexander Valley	9902	10.07	13.43	3.36	-
Arnold Dr	Jack London State Park	5603	18.34	19.30	0.96	45,586.30
Bodega Hwy	Bodega Bay, Town of Bodega	6904	10.00	19.26	9.26	590,569.80
Dry Creek Rd	Lake Sonoma	9901	10.00	20.42	10.42	-
Lakeville Rd	Tolay Lake Regional Park, Infineon Raceway	3601	10.00	16.97	6.97	-
Mark West Springs Rd	Petrified Forest Museum, Safari West	8801A	10.00	15.54	5.54	33,000.00
Petaluma Hill Rd	Green Music Center, Sonoma State University	5710B	10.46	12.97	2.51	98,902.42
Petaluma Hill Rd	Green Music Center, Sonoma State University	5710B	12.97	18.81	5.84	230,115.59
Petrified Forest Rd	Petrified Forest Museum	8801C	20.19	22.55	2.36	-
Porter Creek Rd	Petrified Forest Museum	8801B	15.54	20.19	4.65	496,026.80
River Rd	Korbel Winery, Russian River	8802B	12.81	20.54	7.73	73,825.64
River Rd	Korbel Winery, Russian River	8802B	20.54	25.50	4.96	47,370.66
Totals:					76.26	\$2,085,057.10

Road Name	Attraction	Road ID	From PM	To PM	Length (mi)	FY 12/13 Cost (Millions)
<u>Roads to be Funded by One-Time Reserves</u>						
Adobe Canyon Rd	Hood Mountain Regional Park / Sugarloaf Ridge State Park	76021	10.00	12.32	2.32	1.2
Cannon Ln	Tolay Lake Regional Park	46003	10.00	11.16	1.16	1.9
West Dry Creek Rd	Wine Country	99017	10.00	11.40	1.40	1.6
Westshore Rd	Bodega Harbor	61024	10.00	12.69	2.69	1.8
Totals:					7.57	6.5

Unfunded Tourism/Agriculture Roads

Armstrong Woods Rd	Armstrong Redwoods State Reserve	80131	11.85	15.05	3.20	3.3
Armstrong Woods Rd	Armstrong Redwoods State Reserve	89028	10.00	11.85	1.85	9.0
Bean Ave	Salmon Creek	61017	10.00	10.28	0.28	3.4
Doran Beach Rd	Bodega Harbor	61002	10.00	11.58	1.58	2.8
Fort Ross Rd	Fort Ross	8201	10.15	12.64	2.49	2.6
London Ranch Rd	Jack London State Park	66045	10.20	11.24	1.04	2.2
West Dry Creek Rd	Wine Country	99017	11.40	20.16	8.76	1.6
Westside Rd	Wine Country / Russian River Valley	8001	10.00	13.84	3.84	3.0
Westside Rd	Wine Country / Russian River Valley	8001	13.84	22.60	8.76	4.7
Willow Creek Rd	Sonoma Coast State Beach	70015	10.00	13.60	3.60	3.3
Totals:					35.40	35.9

42.4 Million

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Creative Financing for Pavement Preservation Program

- **Primary Road Network - \$6.7M**
 - **Federal Gas Tax (RSTP)**
 - **Aggregate Mining Fees**
 - **Solid Waste Franchise Fees**
 - **Tribal Contributions**



Creative Financing for Pavement Preservation Program

➤ Ad-Hoc Short-Term Funding - \$8M

General Fund Reserves

- Roads Serving Tourist Destinations
- Match Program for Residential/Rural Roads



Creative Financing for Pavement Preservation Program

➤ Ad-Hoc Long-Term Funding

- Support placing a Local Funding Measure on a future ballot.
- Support an Additional ¼ cent Regional Transportation Sales Tax.
- Support a Statewide Transportation User Fee.
- Potential Implementation of Road Maintenance Districts.



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Lessons Learned

- **A worst-first road maintenance policy works only if you have an unlimited amount of money.**
- **A Pavement Preservation Program is the Most Cost-Effective Approach whereby you keep your Good Roads Good.**



Lessons Learned

- **An Asset Management Plan Serves as the Framework for Allocating Limited Resources to Protect Strategically Defined Asset Classes.**
- **Public Discussion for the Purposes of Network Prioritization not only Increases Awareness but can Focus Communities on Solutions.**



Questions?

