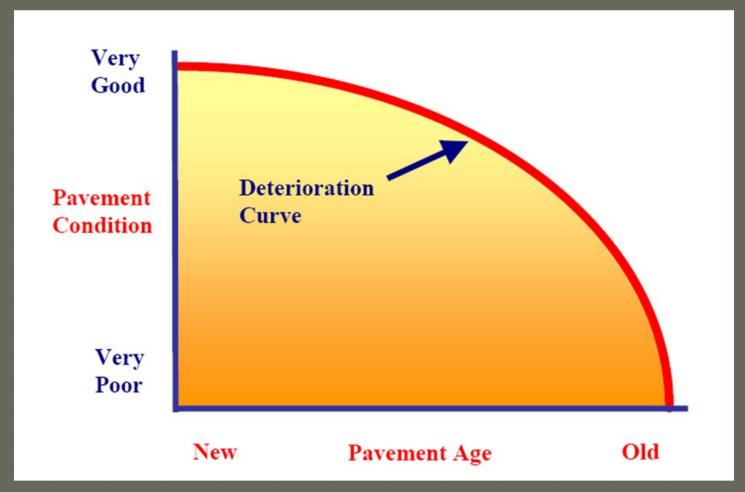
Pavement Management – State of Albany's Streets

City Council Work Session February 6, 2017

Discussion Outline

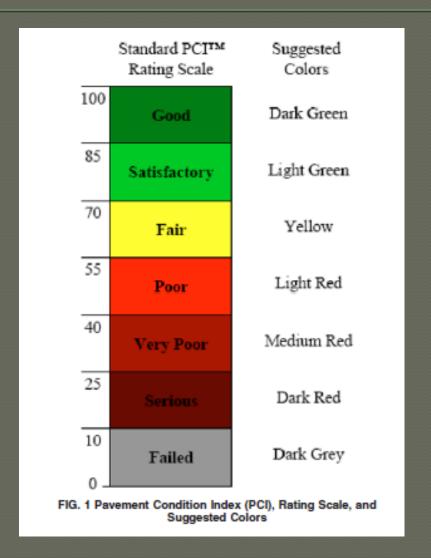
- Pavement Management Review
- State of Albany's Roads
- Funding Projections
- Next Steps

How Pavements Fail



From the National Center for Pavement Preservation

Pavement Condition Index (PCI)



City of Albany Streets

Good Condition – PCI = 85 to 100 [N. Albany Road near bridge – PCI = 96]



Very Poor Condition – PCI = 25 to 40 [Hill Street, 20^{th} - 24^{th} Ave. – PCI = 33]



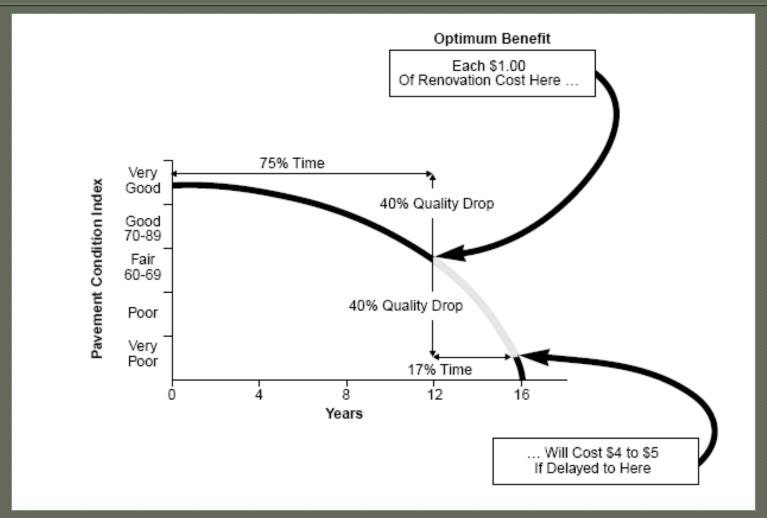
Fair Condition – PCI = 55 to 70 [34th Ave. near Columbus – PCI = 64]



Failed Condition Streets – PCI < 10 [Oak Street at school – PCI = 5]

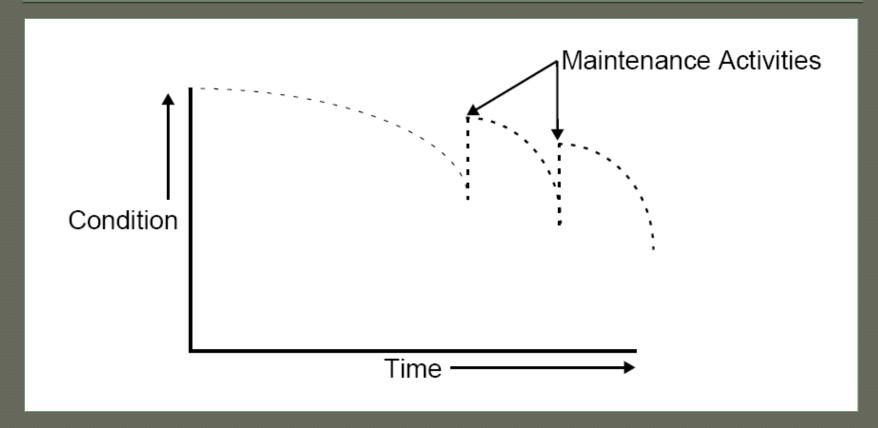


Pavement Renovation Economics



From the Local Agency Pavement Management Application Guide Published by the Northwest Technology Transfer Center

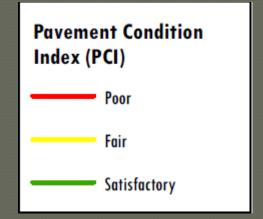
Optimized Investment Strategy



From the Northwest Technology Transfer Center

"Keeping the Good Pavements Good"

Pavement Conditions

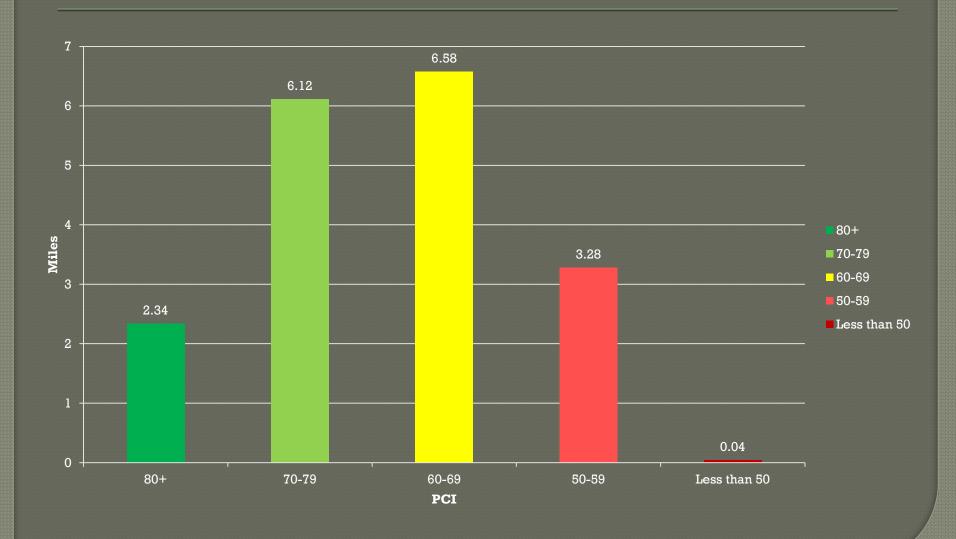


City Maintained Roads

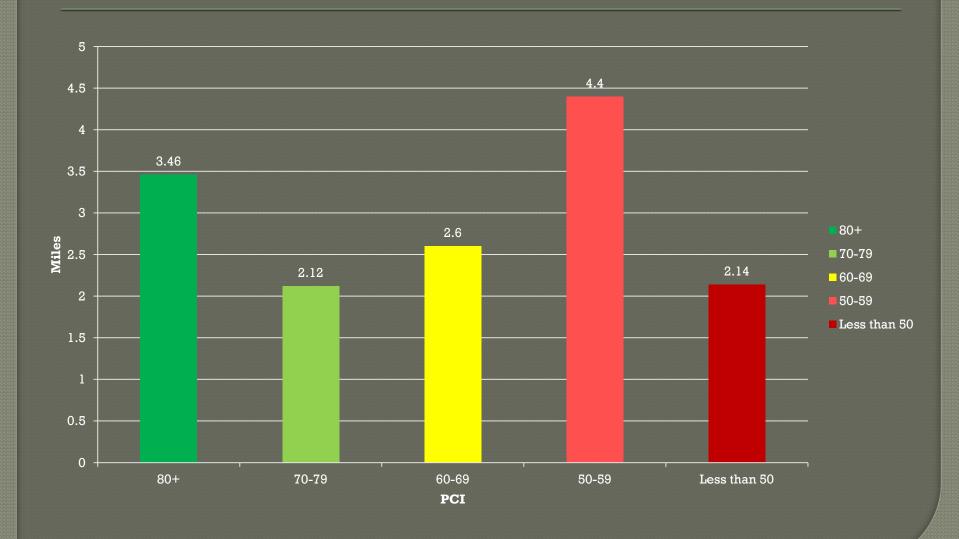
Current Condition

Condition Assessment Results							
PCI	Arterial		Collector		Local		Total Miles
Break-out	Miles	%	Miles	%	Miles %		
System	18.36	100	14.72	100	153.63	100	186.71
Average: 60	10.30	100	14.14	100	155.65	100	100.11
80+	2.34	12.7%	3.46	23.5%	38.85	25.3%	44.65
70-79	6.12	33.3%	2.12	14.4%	29.30	19.1%	37.54
60-69	6.58	35.8%	2.60	17.7%	14.77	9.6%	23.95
50-59	3.28	17.9%	4.40	29.9%	15.50	10.1%	23.18
Less than 50	0.04	0.2%	2.14	14.5%	55.21	35.9%	57.39

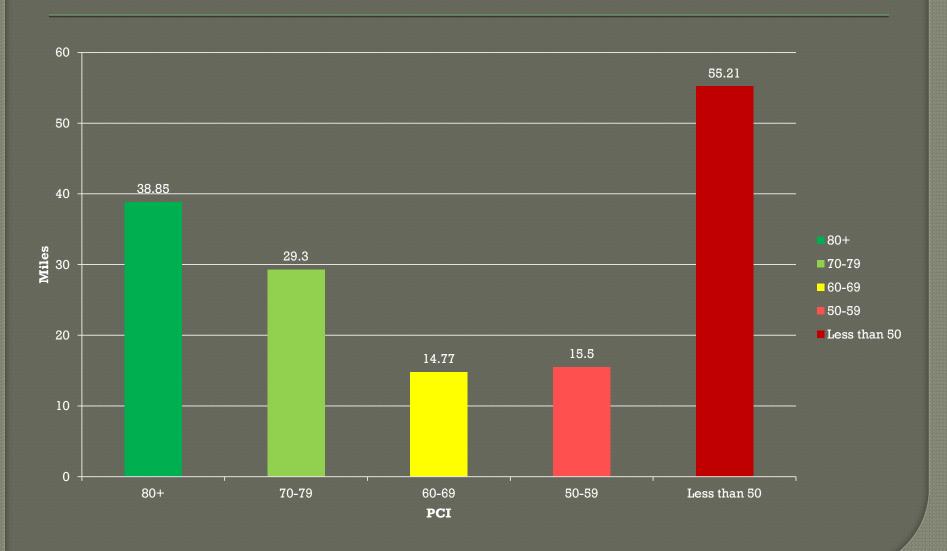
Current Condition - Arterials



Current Condition - Collectors



Current Condition - Locals



Current Funding

- Approximately \$1.6M
 - STP Funds Through MPO (arterial and collector)
 - ~\$450K
 - Water and Sewer ILFF
 - SDC Reimbursement Fees

PCI Projection: Current Funding

Projected PCI with No Additional Funding						
	Existing	+10 yrs	+20 yrs	+30 yrs		
Arterial	70	51	29	26		
Collector	63	47	33	27		
Local	58	45	33	24		

Required Funding

Required **Annual** Investment (in \$Millions) to Achieve PCI Targets

	Arterial			Collector			Local		
PCI Target	10 yrs	20 yrs	30 yrs	10 yrs	20 yrs	30 yrs	10 yrs	20 yrs	30 yrs
60 (Fair)*	\$3.2	\$5.9	\$4.7	\$2.8	\$2.5	\$2.3	\$5.5	\$5.0	\$5.7
70 (Satisfactory)	\$2.8	\$4.5	\$3.9	\$3.4	\$2.8	\$2.8	\$8.2	\$6.3	\$6.7
80 (Good)	\$4.2	\$4.6	\$ 5.9	\$4.8	\$3.4	\$3.2	\$11.8	\$7.8	\$7.7

^{*}Albany's existing system wide average

Required Funding

Required <u>Annual</u> Investment (in \$Millions) to Achieve System Wide PCI

	System Wide				
PCI Target	10 yrs	20 yrs	30 yrs		
60 (Fair)*	\$11.5	\$13.4	\$12.7		
70 (Satisfactory)	\$14.4	\$13.6	\$13.4		
80 (Good)	\$20.8	\$15.8	\$16.8		

^{*}Albany's existing system wide average

Funding Gap

Gap = \sim \$10M to \$19M per year*

*Depends on desired Level of Service (LOS) and amount of time to achieve

Next Steps

- March 6 Work Session
 - Level of Service Objectives
 - Funding Alternatives

Questions?

Pavement Management Review

- Asset Management
- Pavement Deterioration Curve
- Costs of Pavement Renewal Treatments
- Best (Optimized) Investment Strategy