PART II:

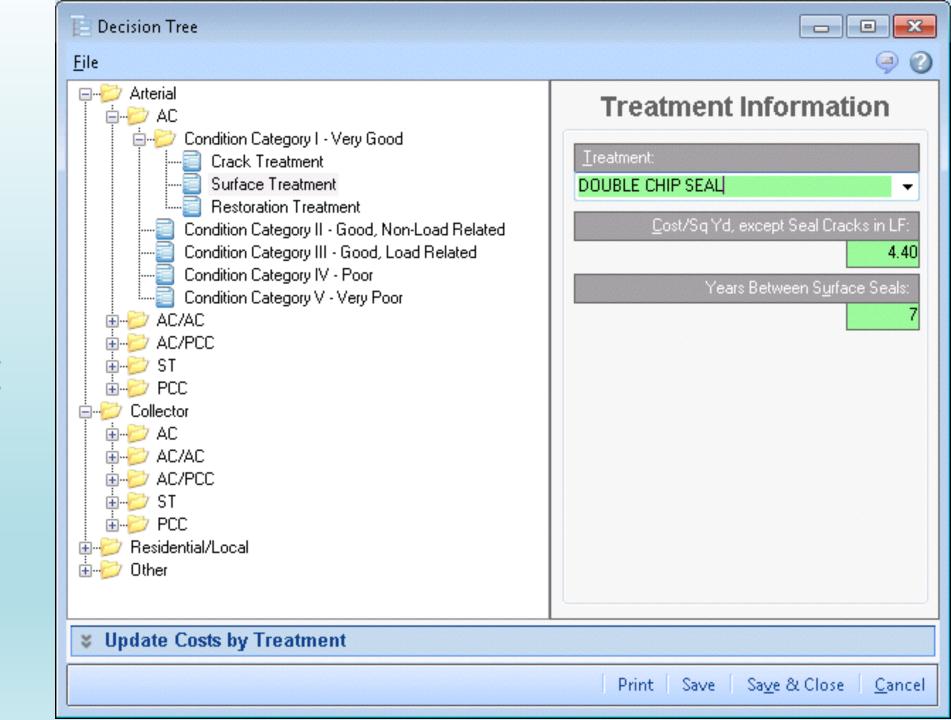
10 Critical Steps for an Effective PMP

Sui Tan, PE

StreetSaver



Update Unit Costs



Why is it Important?

- ✓ Use for Needs calculation
- ✓ Use for treatment costs



CITY OF ANYWHERE 1232 Washington Street Calistoga, CA 94515

Needs - Projected PCI/Cost Summary

Inflation Rate = 3.00 % Printed: 10/29/2014

RECONSTRUCT AC = \$75/SY

Year	PCI Treated	PCI Untreated	PM Cost	Rehab Cost	Cost
2015	80	49	\$192,963	\$6,162,381	\$6,355,344
2016	79	47	\$1,864	\$892,503	\$894,367
2017	81	44	\$45,826	\$1,149,536	\$1,195,362
2018	82	42	\$5,196	\$831,086	\$836,282
2019	82	40	\$22,800	\$427,811	\$450,611

ojected PCI/Cost Summary

on Rate = 3.00 % Printed: 10/29/2014

Cost

Rehab Cost

% PM	PM Total Cost	Rehab Total Cost	Total Cost
2.76%	\$268,649	\$9,463,317	\$9,731,966

RECONSTRUCT AC = \$120/SY

2015	80	49	\$192,963	\$8,704,218	\$8,897,181
2016	79	47	\$1,864	\$1,128,157	\$1,130,021
2017	81	44	\$45,826	\$1,470,058	\$1,515,884
2018	82	42	\$5,196	\$1,173,899	\$1,179,095
2019	82	40	\$22,800	\$696,207	\$719,007

% PM	PM Total Cost	Rehab Total Cost	Total Cost
2.00%	\$268,649	\$13,172,539	\$13,441,188

Where to find them?

- **✓**Bid prices
- √ Contractors
- ✓ Neighboring agencies
- ✓ Maintenance folks
- √ Engineering folks

- ✓ Design costs
- ✓ Construction administration
- ✓ Other incidental costs
- ✓ ADA Compliance
- ✓ NPDES Compliance

How to Set Unit Costs

Use for network planning

Not for construction

Do include:

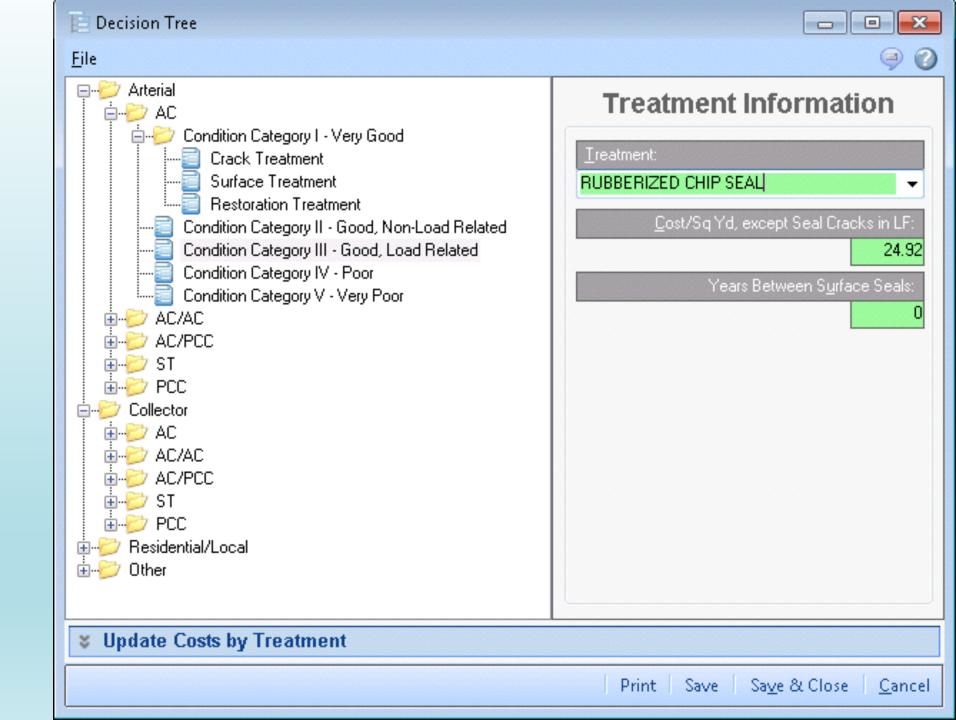
- Design cost
- •labor and materials
- •Incidental restriping, raising utility boxes, etc
- Construction administration

How Often?

At least annually



Update Decision Tree



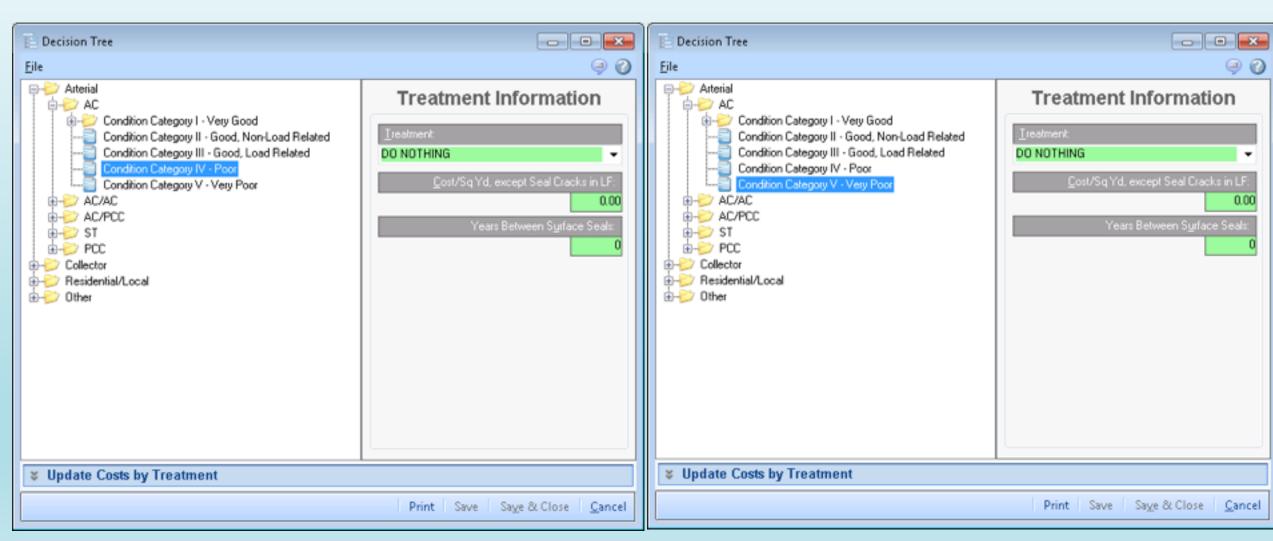
Why is it Important?

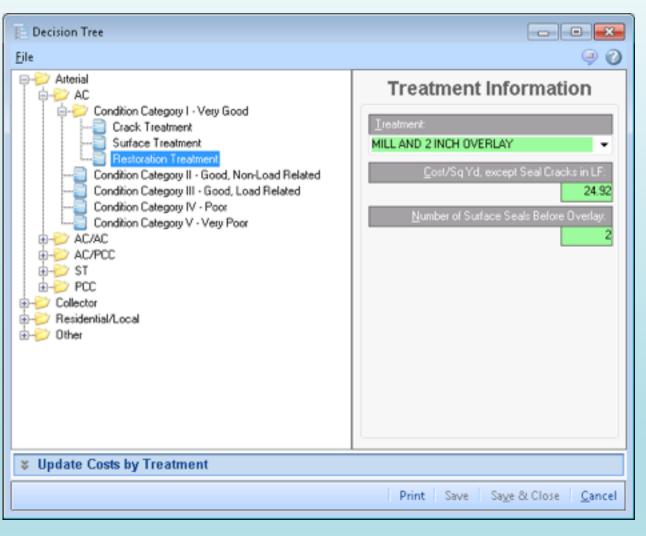
- ✓ Drives the investment strategies
- ✓ Drives the needs assessment
- ✓ It is the brain of PMS

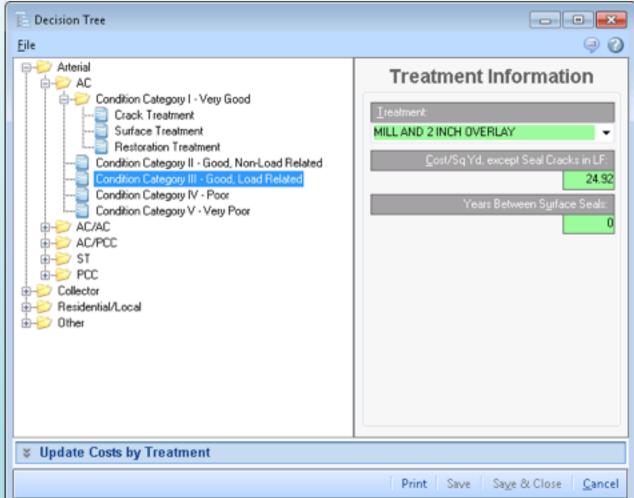
Common Issues

- √ Can't get the average network PCI to above 80s
- √ Confusion of same treatments in different condition categories

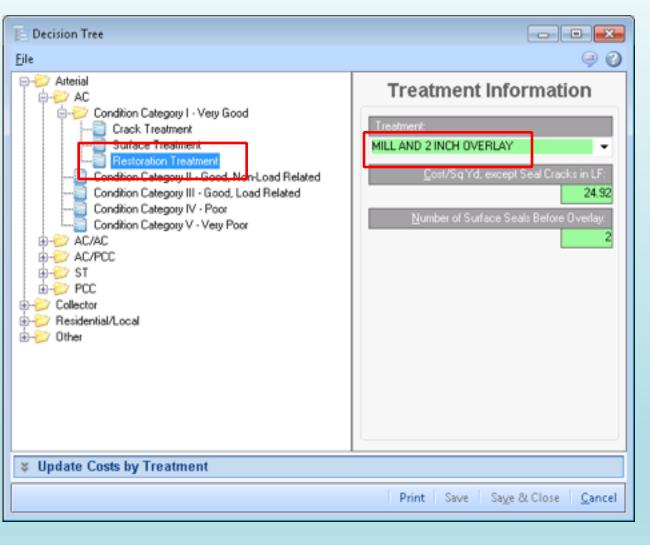
Can PCI reach high 80's?

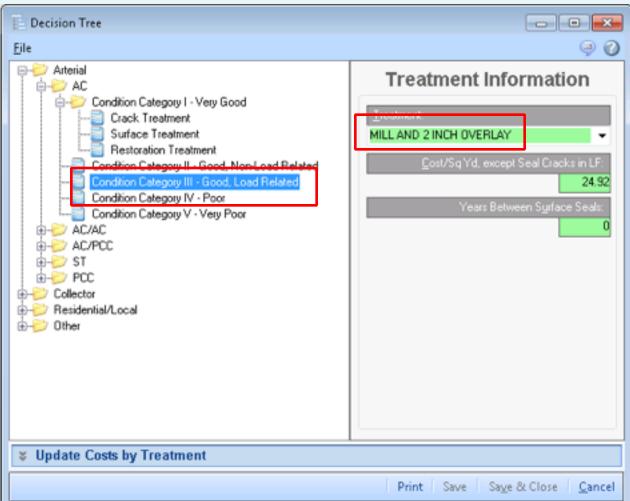






Same Treatment Name





How to Set Treatment Strategies?

- ✓ Pavement Preservation Approach
- "Right time, right place, right treatment"
- **✓** Local Policies
- ✓ Worst first
- **√**Hybrid

Best Management Practice



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Decision Tree

Printed: 10/29/2014

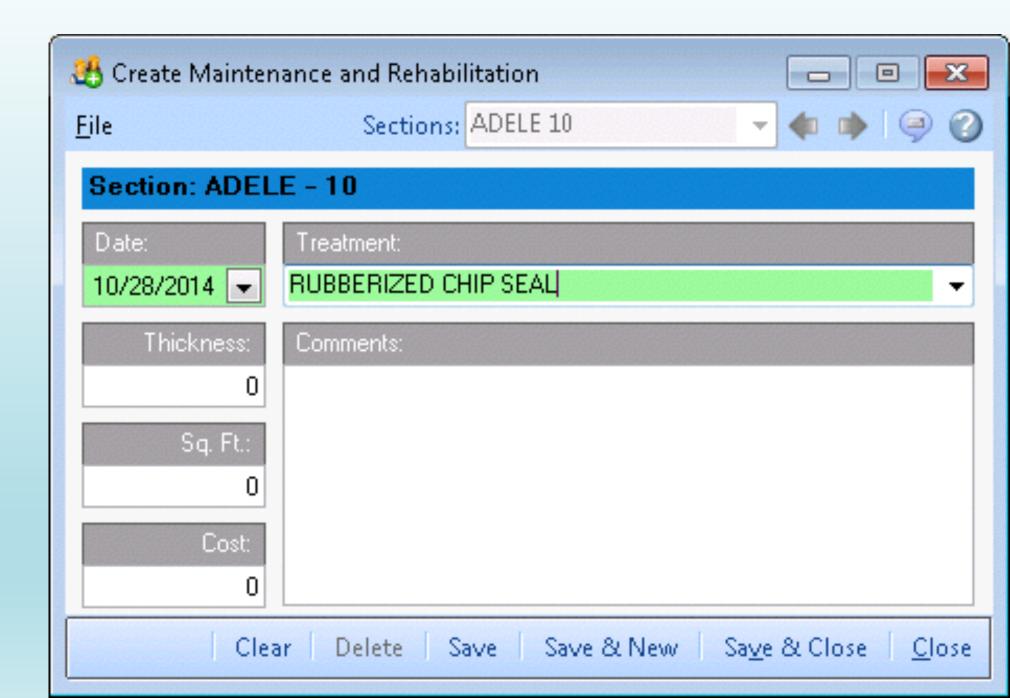
Functional Class	Surface	Condition Category	Treatment Type	Treatment	Cost/Sq Yd, except Seal Cracks in LF:		Yrs Between Surface Seals	# of Surface Seals before Overlay
Arterial	AC	I - Very Good	Crack Treatment	SEAL CRACKS	\$1.62	3		
			Surface Treatment	SLURRY SEAL	\$4.40		7	
			Restoration Treatment	MILL AND 2 INCH OVERLAY	\$24.92			2
		II - Good, Non-Load Related		RUBBERIZED CHIP SEAL	\$10.23		9	
		III - Good, Load Related		MILL AND 2 INCH OVERLAY	\$24.92			
		IV - Poor V - Very Poor		MILL AND 4 INCH OVERLAY	\$38.00			
				FULL DEPTH RECLAIMATION	\$65.00			
	AC/AC	/AC I - Very Good	Crack Treatment	SEAL CRACKS	\$1.62	3		
			Surface Treatment	SLURRY SEAL	\$4.40		6	
			Restoration Treatment	THIN AC OVERLAY(1.5 INCHES)	\$15.48			2

How Often?

At least annually



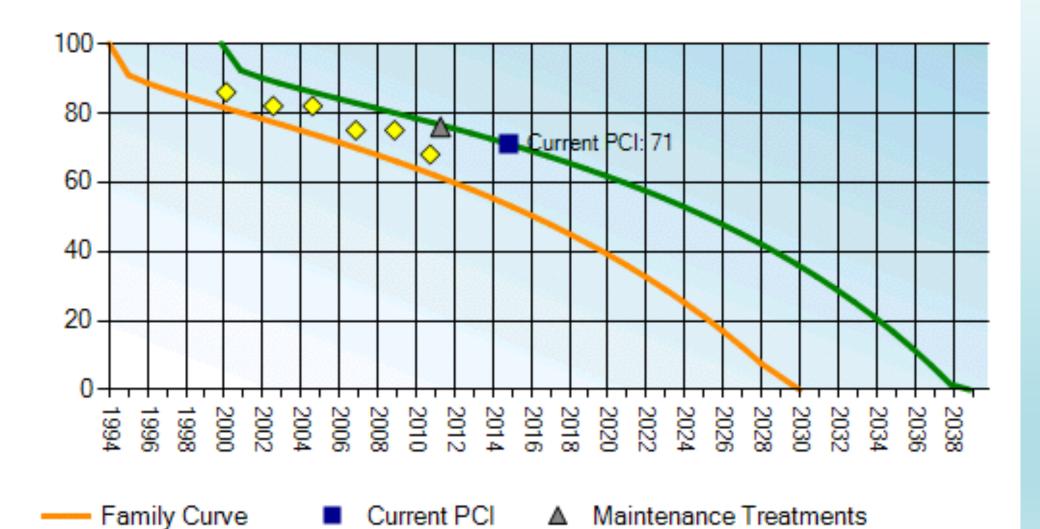
M & R Update



Why is it Important?

- √ Keep the section performance curve up to date
- ✓ PCI Increase credit for the treatment applied
- ✓ Affect the needs assessment
- √ Build M&R history
- ✓ Data for customized performance curve

Deterioration Curve for Pavement Section (BERRY - 20)



Inspections

Adjusted Curve

How to Update

- Manual process
- Batch process

File Windows Help

















Pavement Sections



GIS Toolbox



Table Maintenance



Inspections



Budgeting



Reporting



Maintenance Treatments



Asset Management





Utilities



Export Sections



Export GIS Data



Import Section Attributes



Download Inspection Template







Template







Import Inspection Units



Export Inspection Units



Utility



User Defined Fields







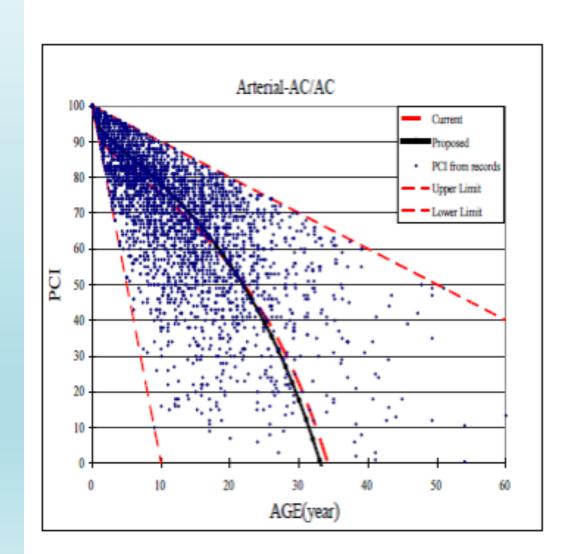
Enter Treatment Correctly

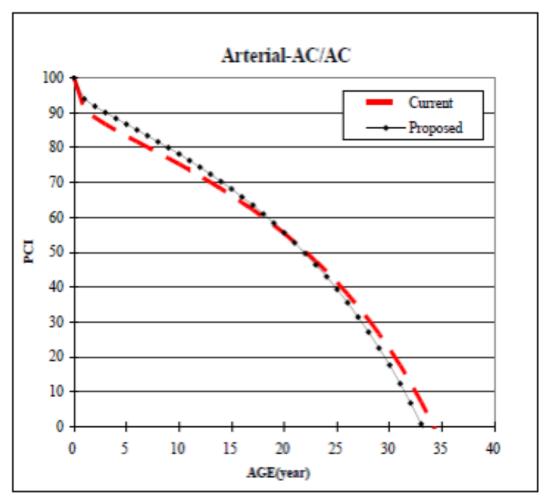


Why is it Important?

- Data used to fine tune performance curve
- Use to build customize performance curve

Proposed Arterial-AC/AC Performance Curve







Communicate Results

Must Read:

Steve Townsen's

5 Steps to Win Friends and Influence People





Executive Performance Summary





Network Inventory

Pavement Area: 0.1

Miles: 15.5

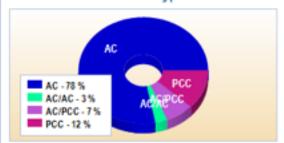
Lane Miles: 31.0

Sections: 128

Current PCI by Functional Class 100 80 - Very Good - I 60 - Good - II/III 40 - Poor - IV 20 - Very Poor - V 0 Arterial Residential/Local Collector Rural Local (7)



Surface Type









the bay area's news station

HOME

NEWS

REWARDS

KRON 24-7

KRON LIVE

MY KRON 4 STORY

LOMA PRIETA QUAKE

NAPA QUAKE

BAY AREA

CALIFORNIA

NATIONAL

WORLD

STRANGE

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By Brian Shields

Wed Oct 29th, 2014 1:29pm America/Los Angeles



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A new report from the Metropolitan Transportation Committee

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