



**THE TOP 10 COMMON MISTAKES
WHEN IMPLEMENTING A
PAVEMENT MANAGEMENT
PROGRAM**

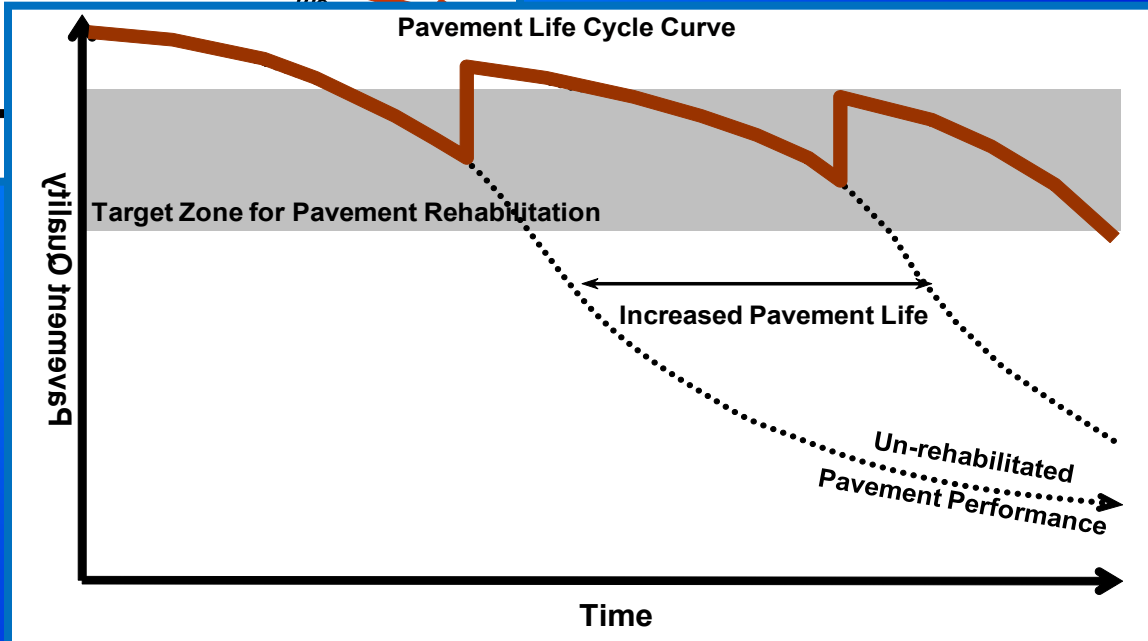
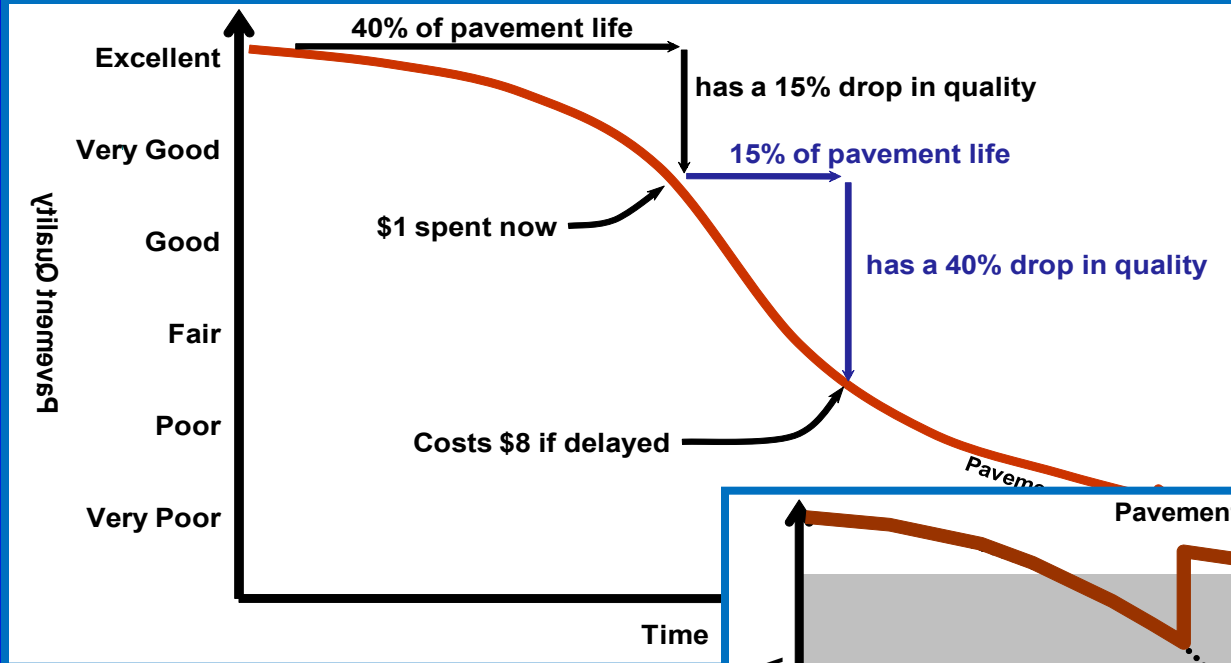


Pavement management is the process of evaluating, prioritizing and monitoring pavements in an effort to provide maximum benefits from available funds.

In reality, it is the process of picking winners and losers in a defensible manner.

Zac Thomason, M.B.A.
National Client Services Manager

Why do Pavement Management?....



#1 Finding the Go Button



Install Ready? Wrong!

PM software usually allows the user to program some level of intelligence from the M&R activities/rates to performance curves.

GIS Integration

Ensure adopted segmentation is adequate for pavement management. Homogeneous segmentation is ideal.

Configuration

How will the system prioritize roadway selections based on condition and funding?

#2 – No End Game



Determine roadway condition

walking – windshield – or semi automated

Define acceptable PCI

good, bad, or indifferent

Configure analysis operating parameters

worst first – prioritized – optimized

Develop 5-year plan based on end game

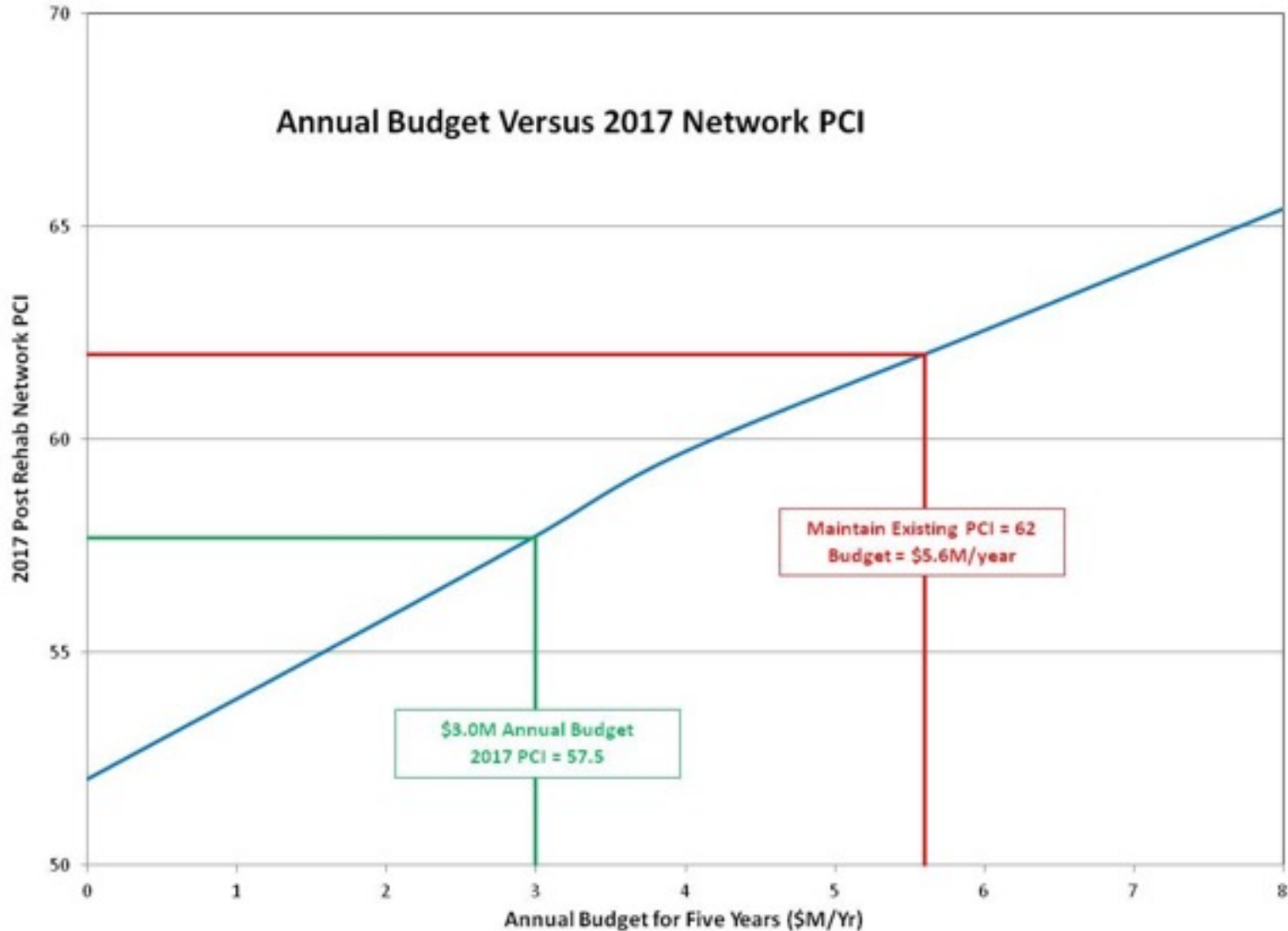
defensible results



Basic Checks...



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#3 - *Insufficient Support and Resources*



GIS and Network Definition

*Editing, cleanup, & inventory
development*

IT Support and Maintenance

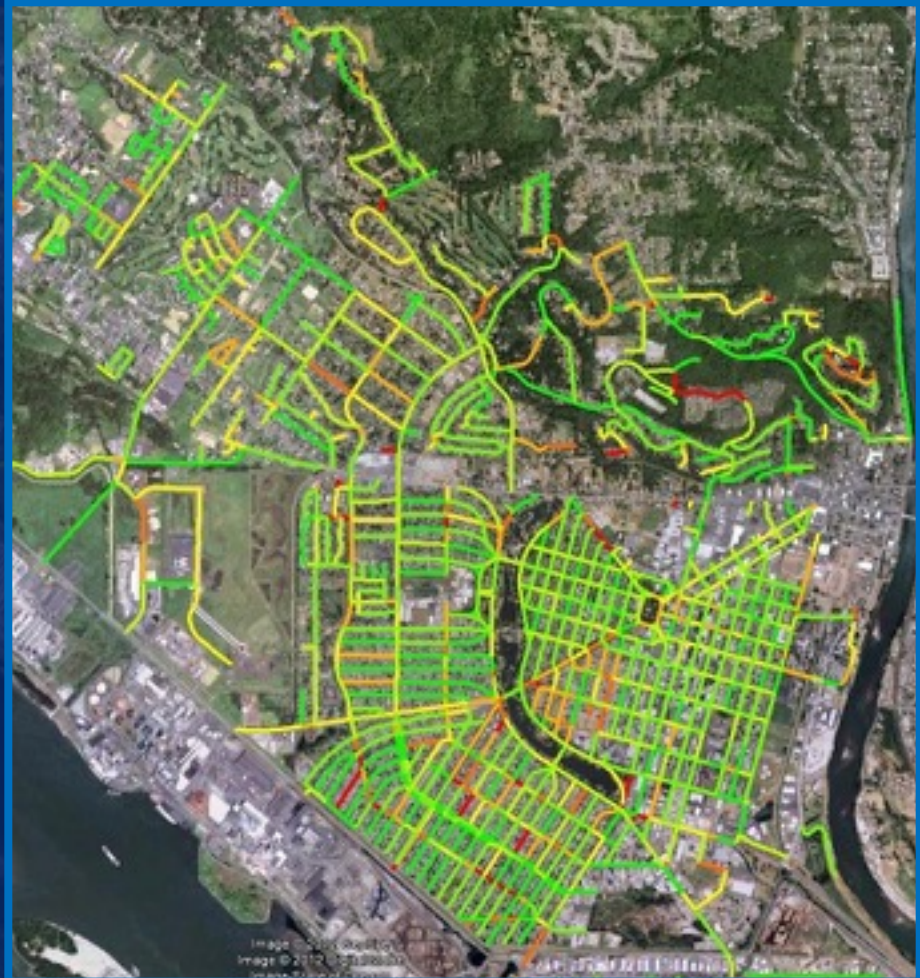
*Ranges from fantastic to total
roadblock*

Publishing of Results

*To where and how?
Text, Visual, Drafts, Web*

Data Updates

Business Plan - No Easy Button



Data Updates....



Funding
Agency

Surface Distress Only

1 to 3 years

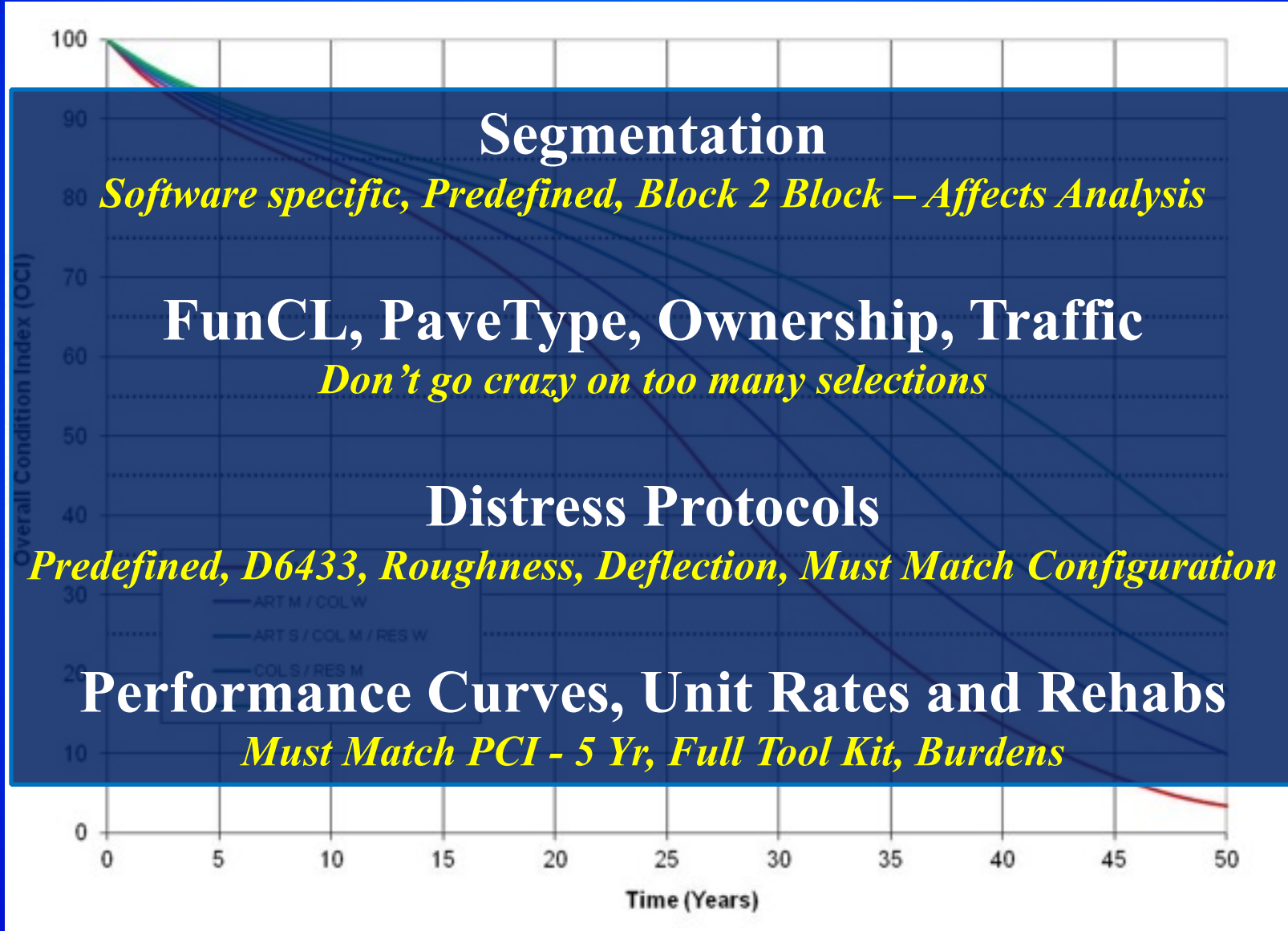
Surface Distress and Roughness

2 to 4 years

**Surface Distress, Roughness
and Deflection**

3 to 5 years

#4 – *Not Understanding ...Configuration & Prioritization*



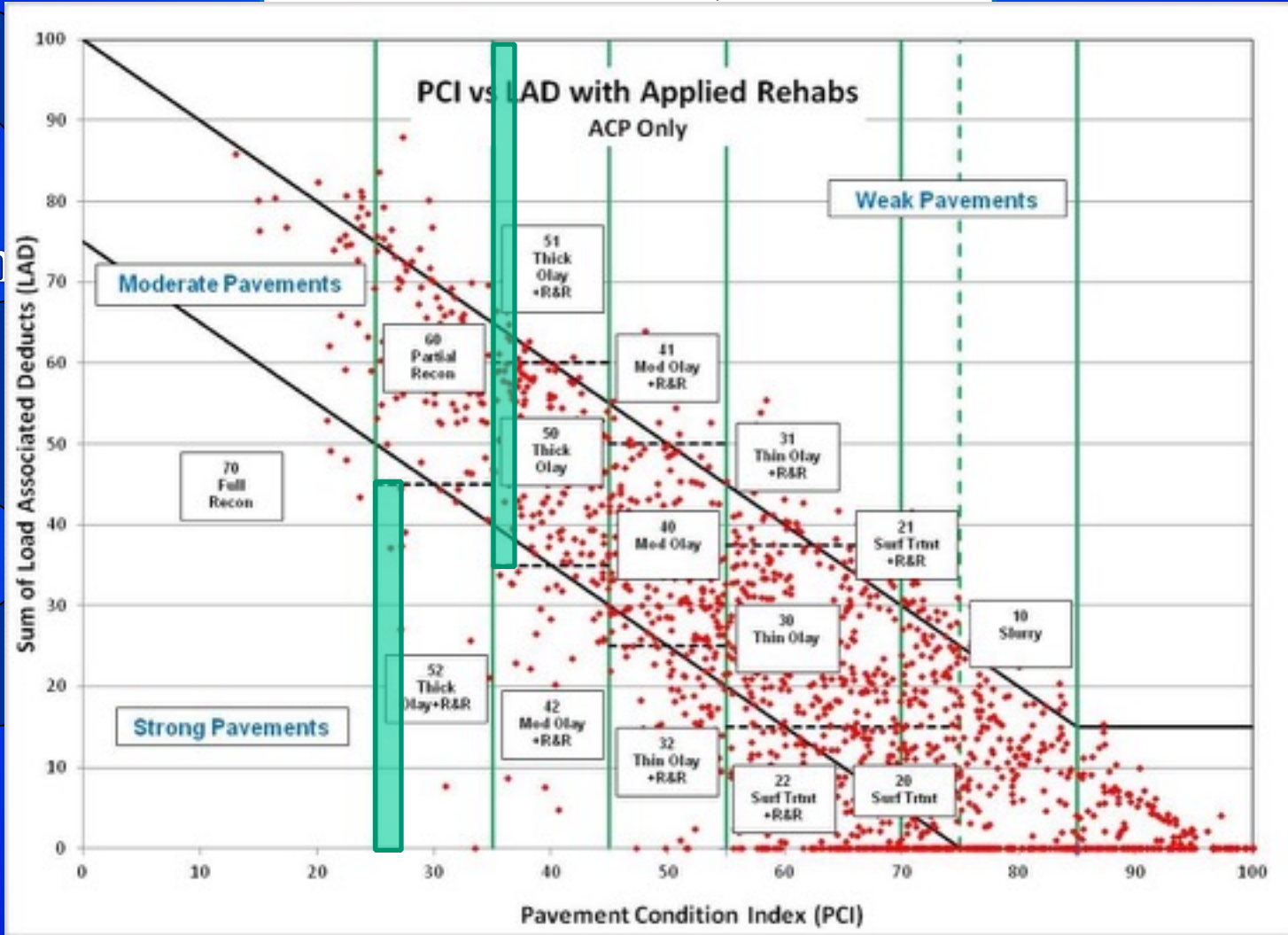
Operating P

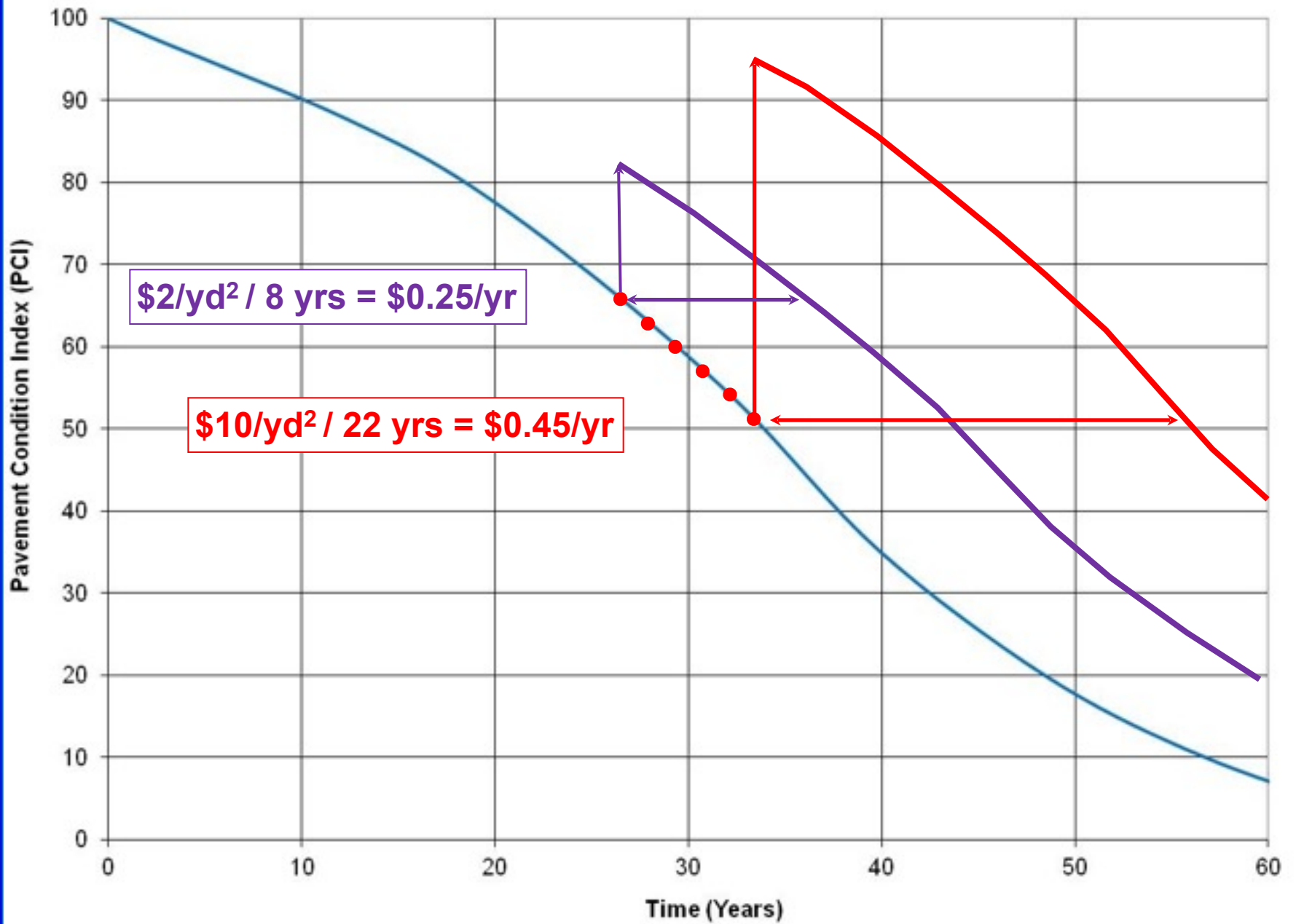
Need Year		Prioritizes Candidates in Their Need Year Based on Cost of Deferral		
OCI B/P	Range	Action	NPR Factor	Weighting
0	0 to 10	Critical Recon	70	40
10	10 to 20	Non-Critical Recon	5	
20	20 to 25	Critical Thick Olay or Partial Recon	100	
25	25 to 35	Non-Critical Thick Olay or Partial Recon	35	
35	35 to 38	Critical Moderate to Thick Olay	95	
38	38 to 45	Non-Critical Moderate to Thick Olay	30	



Optim

fit






#5 – *No Defensible Results...Why This And Not That?*



Not Selected

An ugly street stays ugly for a long time,
but good streets deteriorate fast

Reconstruction money was directed to
overlays and surface treatment

A street view of Robert's Avenue, showing a residential street with houses, trees, and a cloudy sky. A blue text overlay is centered on the image.

ASTM D6433 was insufficient
Needed ditch depth, drainage quality, and
constraining width info.
Deflection testing would have been useless

Robert's Avenue

#6 – Ignoring ADA Compliance...



Ignoring
Evolving
Legal
Comme



#7 – *Data Collection Methodology...*



Walking/Sampling – Windshield – Automated
All have pros & cons – comfort level

Methodology Must Match Needs

Safety - speed – cost - distress variability/repeatability – environment
Linear survey VS sampling approach

Step Back Look at Big Picture – Limitations

Narrow streets, steep hills, alleys, short CDS < > High Mileage



#8 – *Believing Results are 100% Correct*



Follow up network level testing
with project level testing
Network level testing develops budgets
and project level completes the design



Do not assume a 2" overlay selected
by the system means a 2" overlay
Perform deflection testing, pull cores, and design
an appropriate overlay

#9 Understanding Software Options



Comprehensiveness ↑

Engineered Solutions
analytical – optimization

Enterprise Wide Solutions
GIS Integration, Modular, Programming

Public Domain
Cost – Acceptance



Investment →

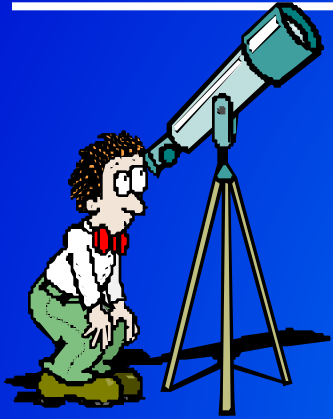
#10 – Bonding....



DON'T!

You cannot bond your way out of an ongoing obligation
Think of streets as a utility, not a general fund expense
Bonding doesn't make financial **CENTS!**

One Minute Close...



Its Only Pavement Management
horse shoes and hand grenades
don't sweat the small stuff

Start From a Good Foundation
GIS, understanding, training



Read all the Proposals
But shortlist only 2, maybe 3

Questions ?

