

# Pathway Services Inc.

INNOVATIVE PRODUCTS Data Collection





### **Data Archives**

- Pavement data used for section ratings:
  - Pavement smoothness: International Roughness Index (IRI)
  - Rutting: inches
  - Pavement cracking and distresses: Pavement Condition Index (PCI)
  - Composite: Present Serviceability Rating (PSR)

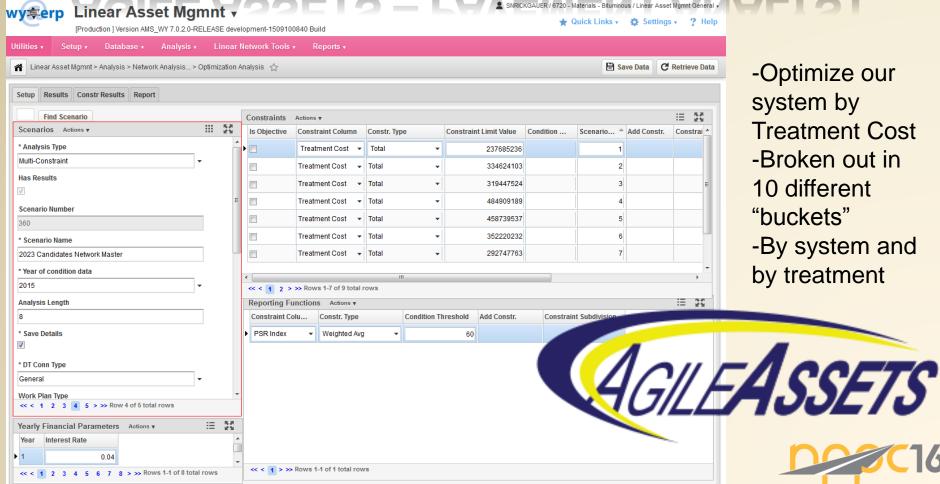
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Asphalt: PSR = PSI - 4*Rut^2-3*(1 - 0.01*PCI)
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$$PSI = 5.35^* \exp(-0.0058^*IRI\_HCS)$$

$$PSI = 5.0 * exp(-0.0038*IRI_HCS)$$



#### AGILE ASSETS - PAVEMENT ANALYST



#### I-25 & I-90, ESALs>=200, HPM over Base, AG Base









## **Budget Categories**

- 10 Pavement Funding "Buckets"
  - Interstate
    - 1S, 2S, 3S
  - Non-Interstate NHS
    - 1S, 2S, 3S
  - Non-NHS
    - 1S, 2S, 3S
  - Urban





### **Pavement Treatment Types**

- 1S Preventative
  - Maintenance: Chip Seals, Patching, Slabs
  - Microsurface
  - Thin overlay (< 2")</p>
  - Grind Concrete
- 2S Rehabilitation
- Asphalt Placed thickness

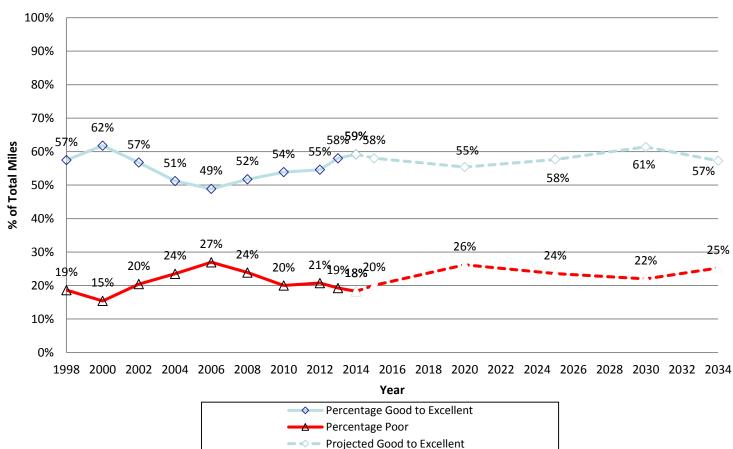
2" - 3"

 Dowel Bar Retrofit (concrete)

- 3S Structural
- Rehabilitation
  - Asphalt Thickness Placed > 3"
  - Crack/Seat & Overlay Concrete
- 4S Full Reconstruction



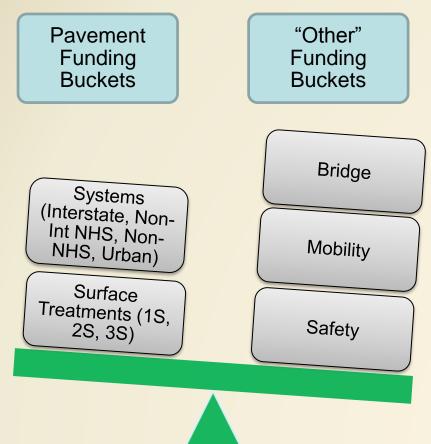
### Statewide 20 Year Pavement Condition Trends Current Funding



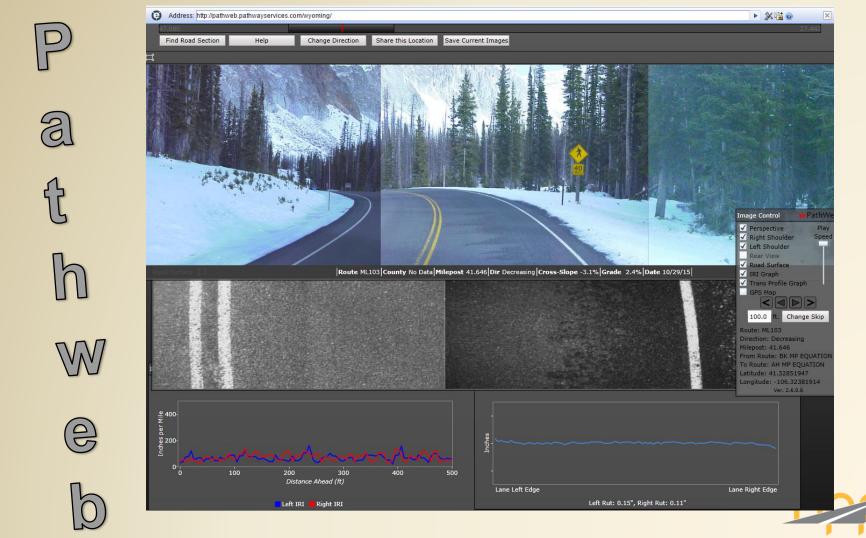
■ Projected Poor



## **Balancing System Needs**







#### **Stress Reduction Kit**



#### Directions:

- 1. Place kit on FIRM surface.
- 2. Follow directions in circle of kit.
- 3. Repeat step 2 as necessary, or until unconscious.
- 4. If unconscious, cease stress reduction activity.

# Questions??

