

# Silos are Good

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State Planning Engineer

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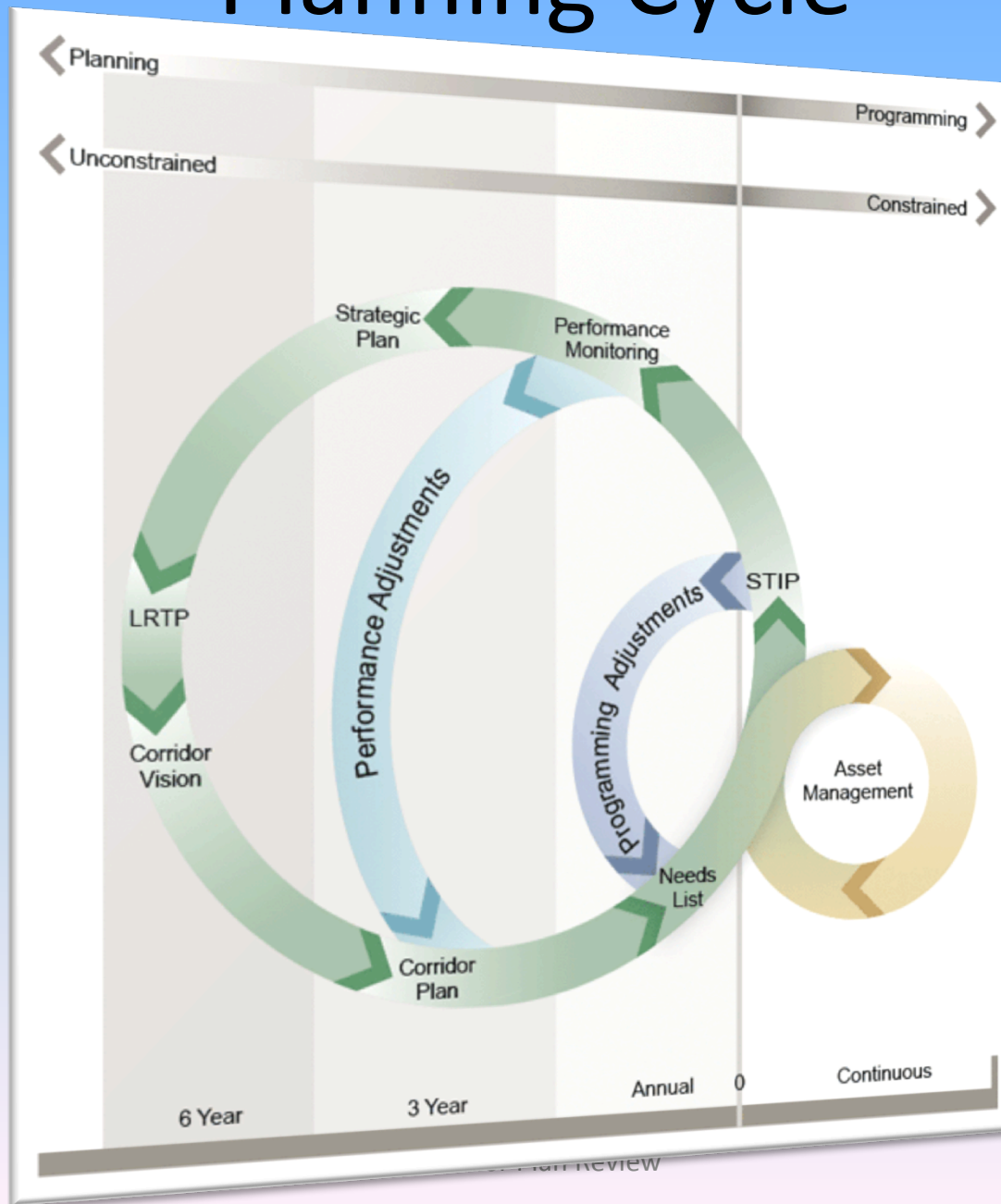
# Silos are Good

Experts putting together expert systems that bring the power of that knowledge to bear.

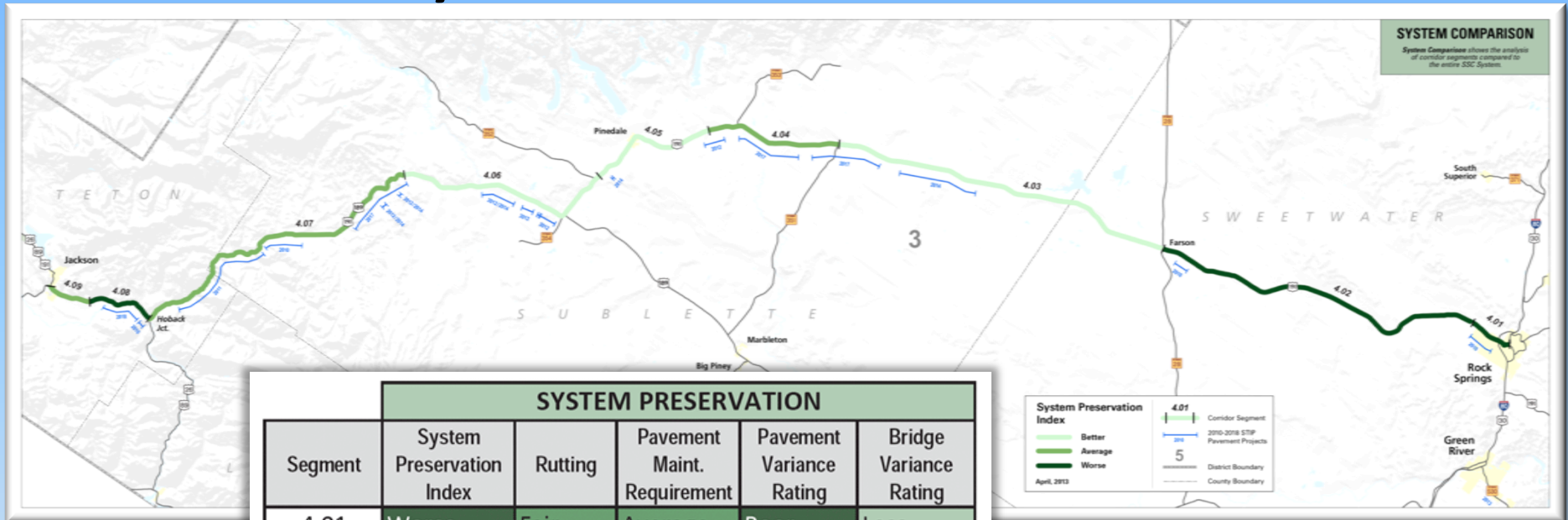
# Highway Asset Management Plan

- Plan Contents
  - Pavement and bridge inventory and conditions on the NHS,
  - Objectives and measures,
  - Performance gap identification,
  - **Lifecycle cost** and risk management analysis,
  - A financial plan, and
  - Investment strategies

# Planning Cycle



# System Preservation

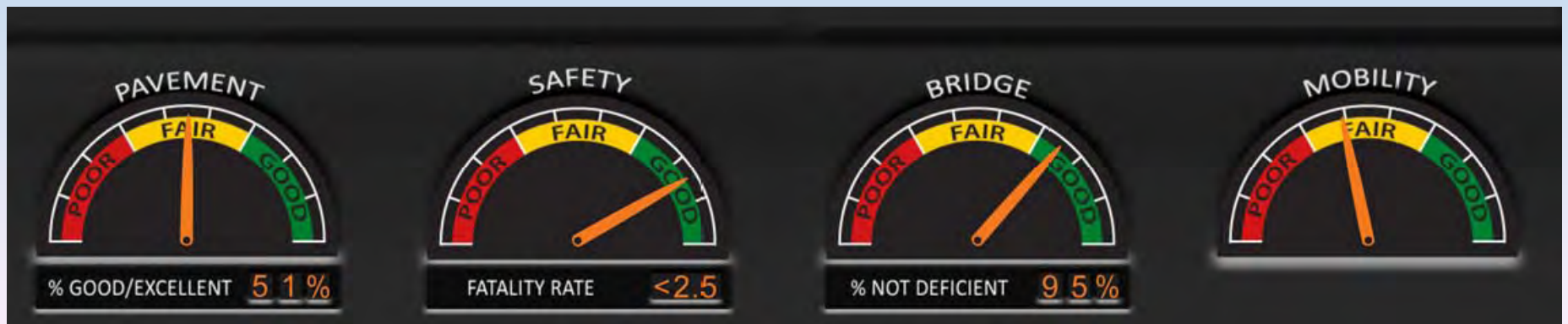


SYSTEM PRESERVATION					
Segment	System Preservation Index	Rutting	Pavement Maint. Requirement	Pavement Variance Rating	Bridge Variance Rating
4.01	Worse	Fair	Average	Poor	Less
4.02	Worse	Good	More	Good	More
4.03	Average	Good	More	Good	Less
4.04	Average	Fair	Average	Fair	Less
4.05	Average	Good	Less	Good	Less
4.06	Average	Good	Average	Good	Average
4.07	Average	Good	Average	Fair	Less
4.08	Worse	Fair	More	Fair	More
4.09	Average	Fair	More	Fair	Less

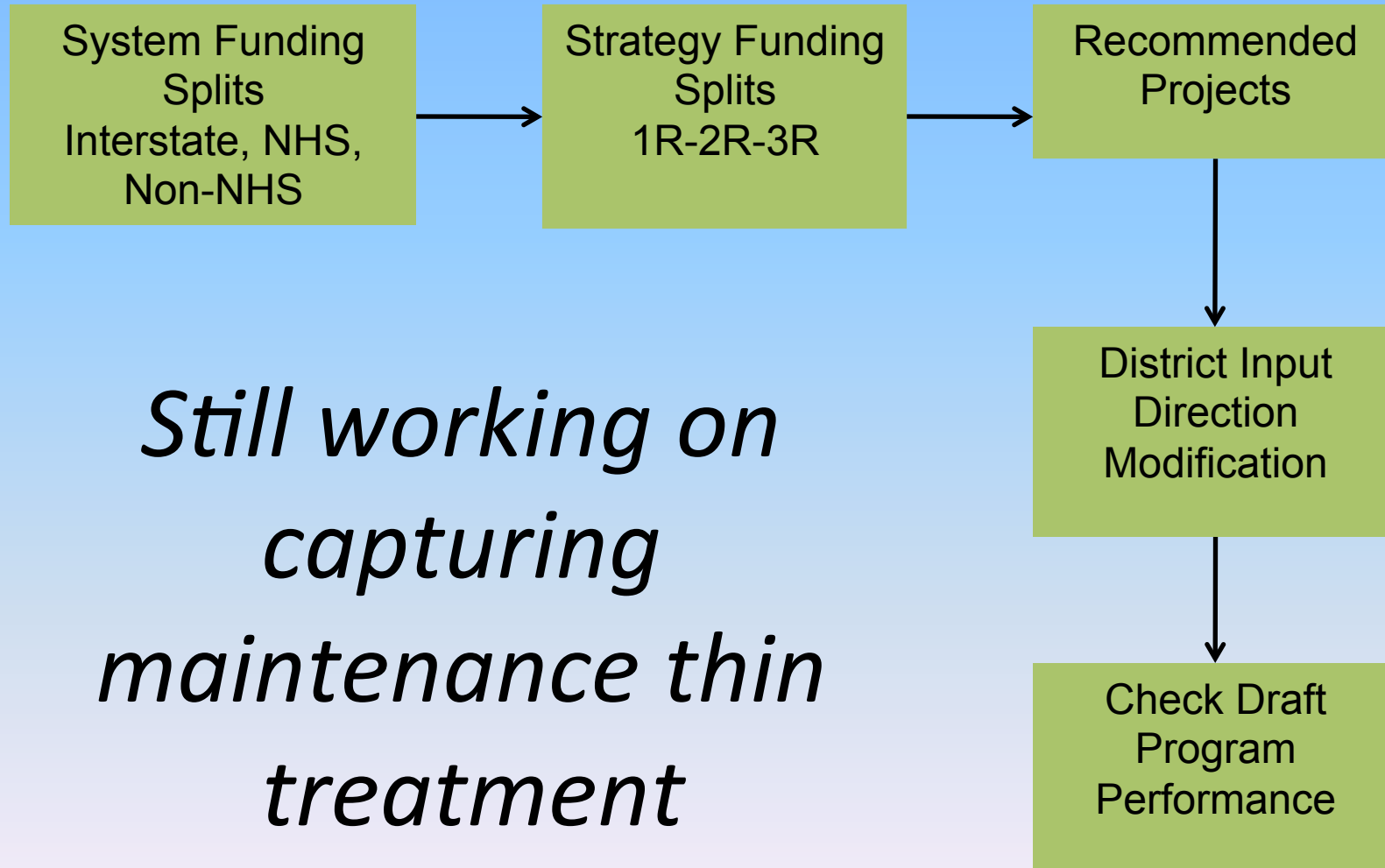
\$715.6 Million Annual



Additional \$134.5 M for Bridge/Pavement

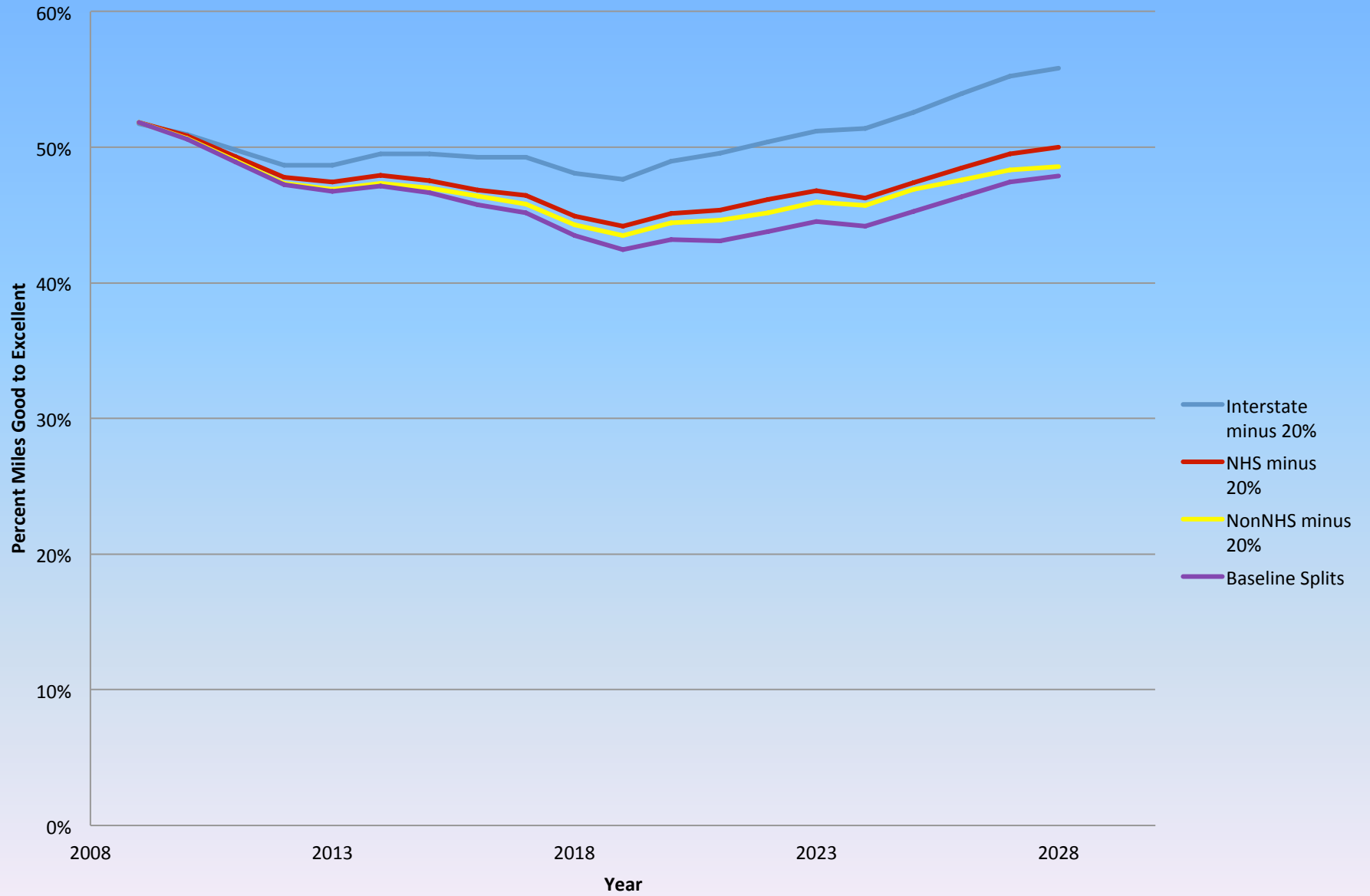


# Pavement Project Selections



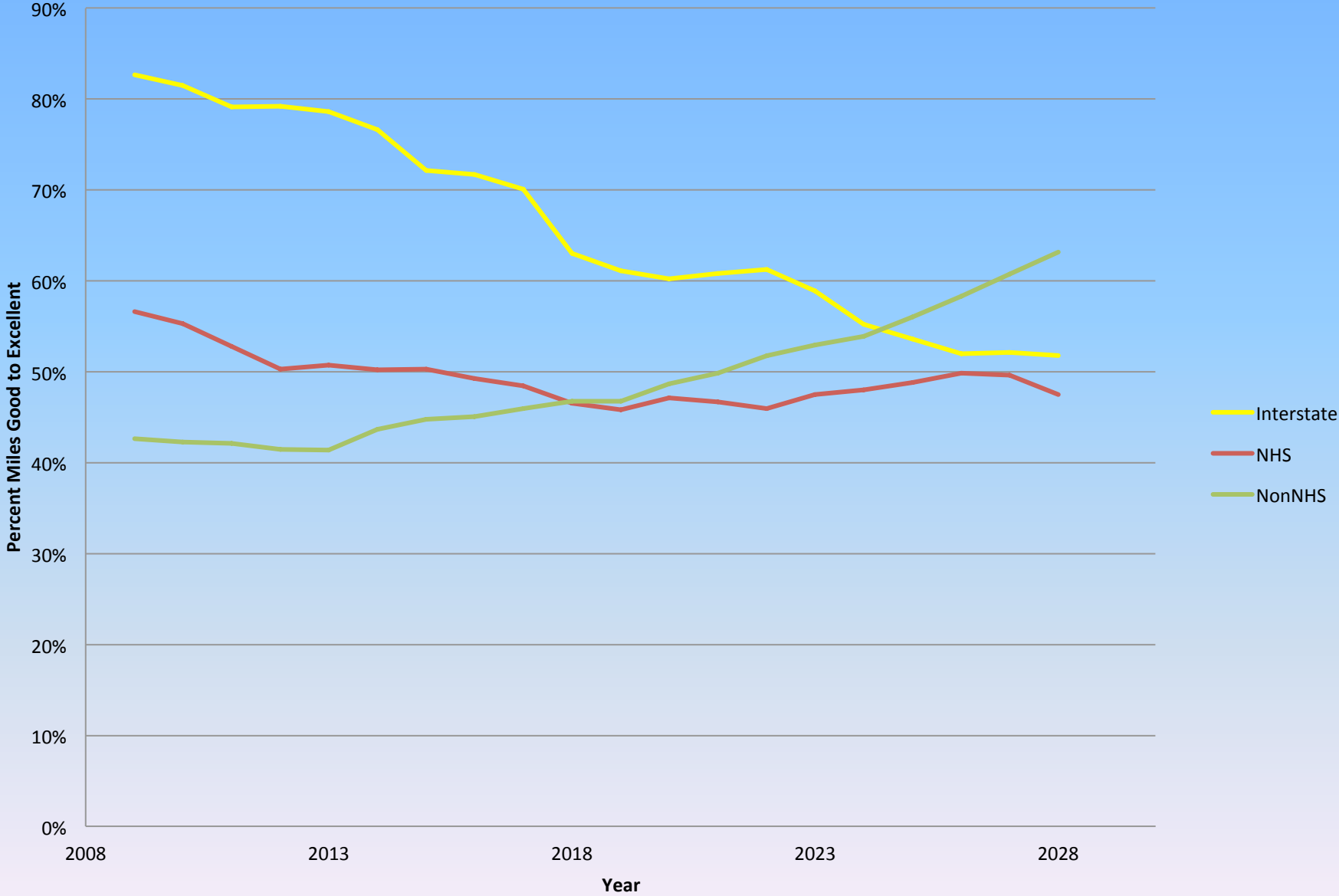
*Still working on  
capturing  
maintenance thin  
treatment*

# Changing System Splits

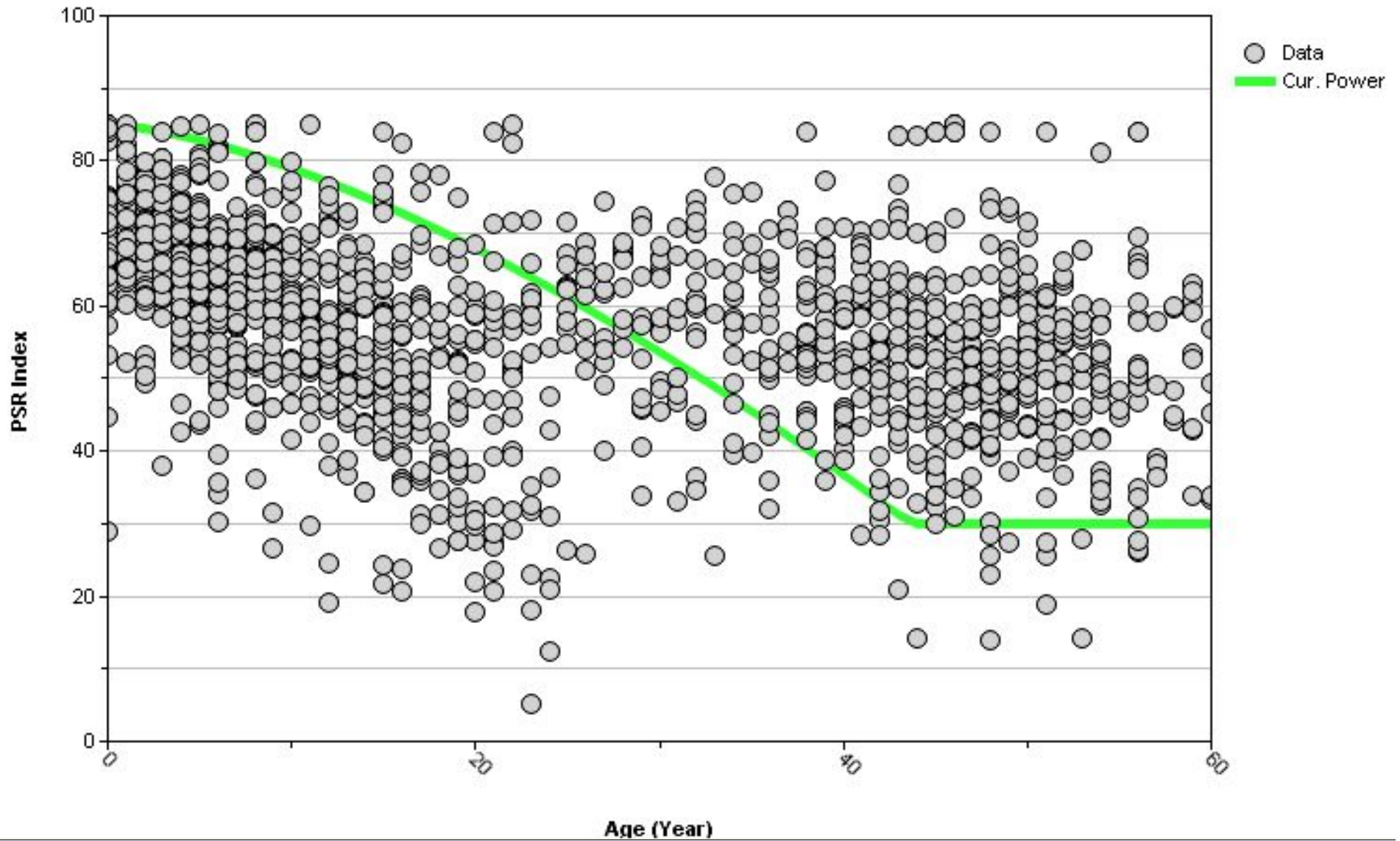




# Interstate - 20% Systems Comparison



# < 50 ESALs Granular Base PSR Index Model



# Maintenance QC/QA Data Collection Technician



# Current Construction Spending

Program	
Bridge	10%
Community Development	3%
Environment	1%
Maintenance	6%
Mobility	8%
Other	1%
Pavement	54%
Safety	15%
Urban	2%

# Summary

- The pieces are out there
  - Included in Long Range Transportation Plan
  - Included in pavement projection
  - Validated through Maintenance QA
- We know they are critical for effective life cycle costs
  - Contract Costs
  - Maintenance work orders