

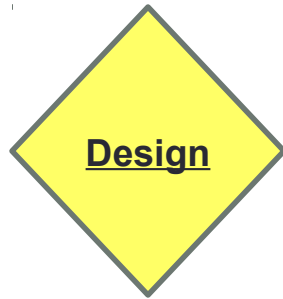


# Asset Management in Kentucky

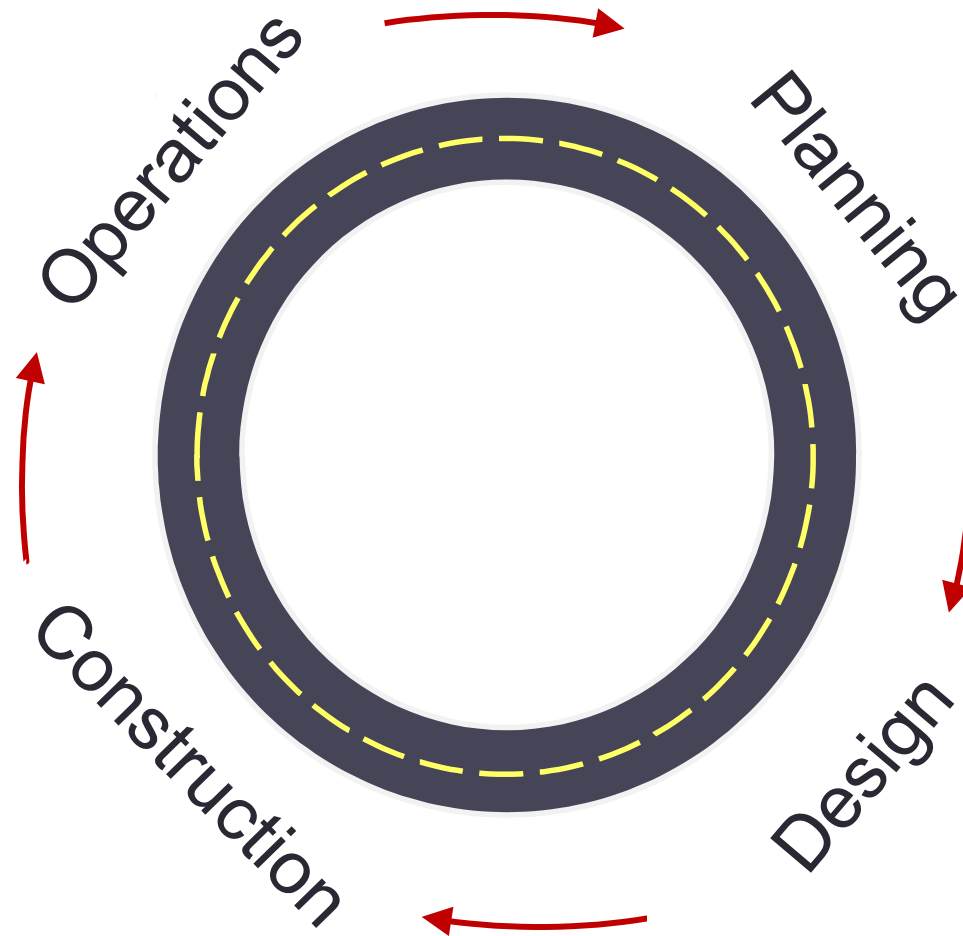
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Jon Wilcoxson, PE  
KYTC Division of Maintenance  
Operations and Pavement Management Branch

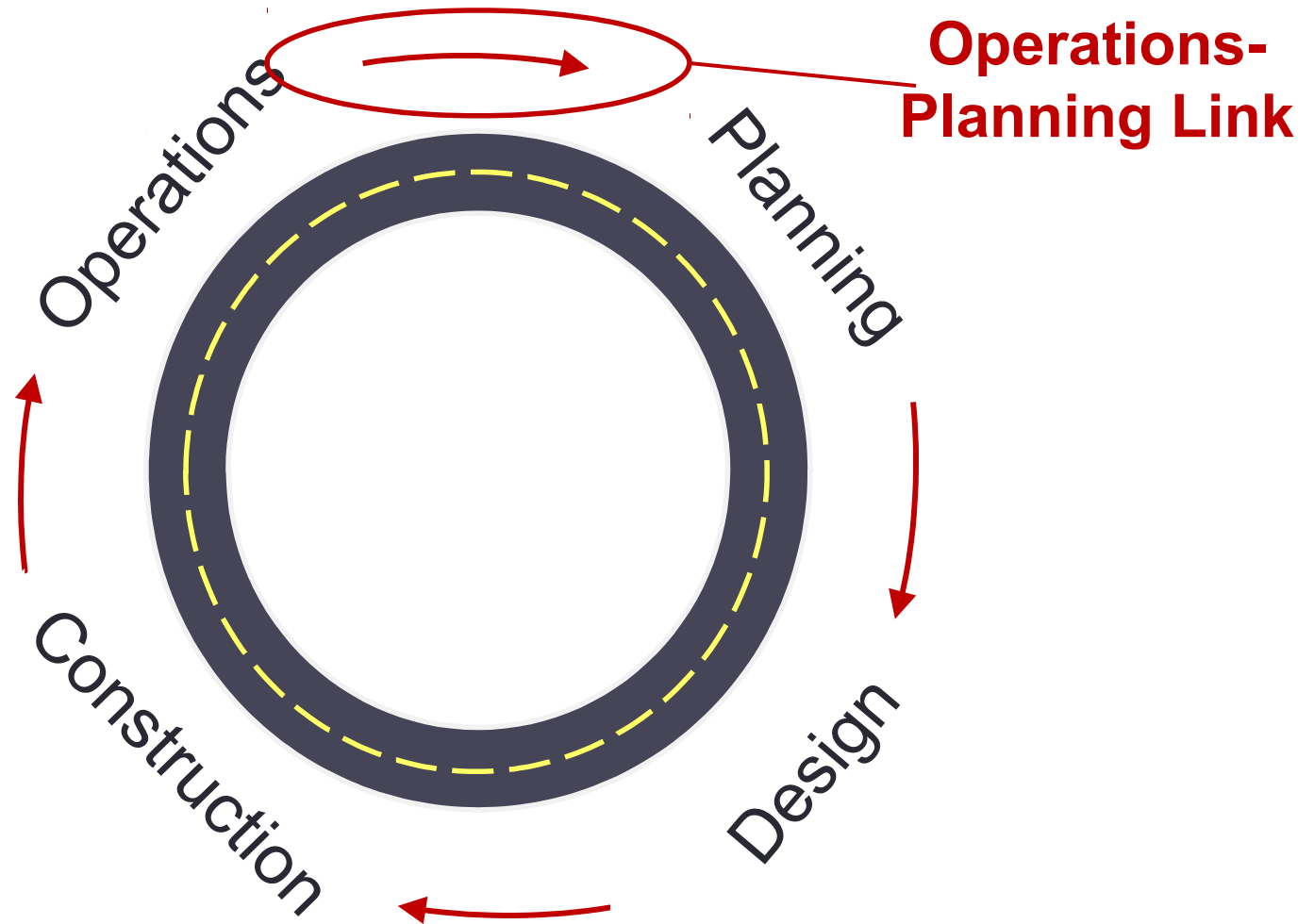
# Historic Project Development Process



# Project Development Cycle



# Project Development Cycle



# Operations-Planning Link

- Quality Data to Define Needs
- Define Objectives for Prioritization (Performance Measures)
- Improve Resource Allocation Decisions

# Defining Needs

- Safety Analysis
- Pavement Management
- Bridge Management
- Other Assets

# Defining Needs - Safety

## High Friction Surface

- Location
- Crashes
- Curve Data
- Pavement Condition



# Defining Needs - Safety



## Rumble Strips

- Location
- Crashes
- Lane Width
- Shoulder Width
- Speed Limit
- Auxiliary Lane Data



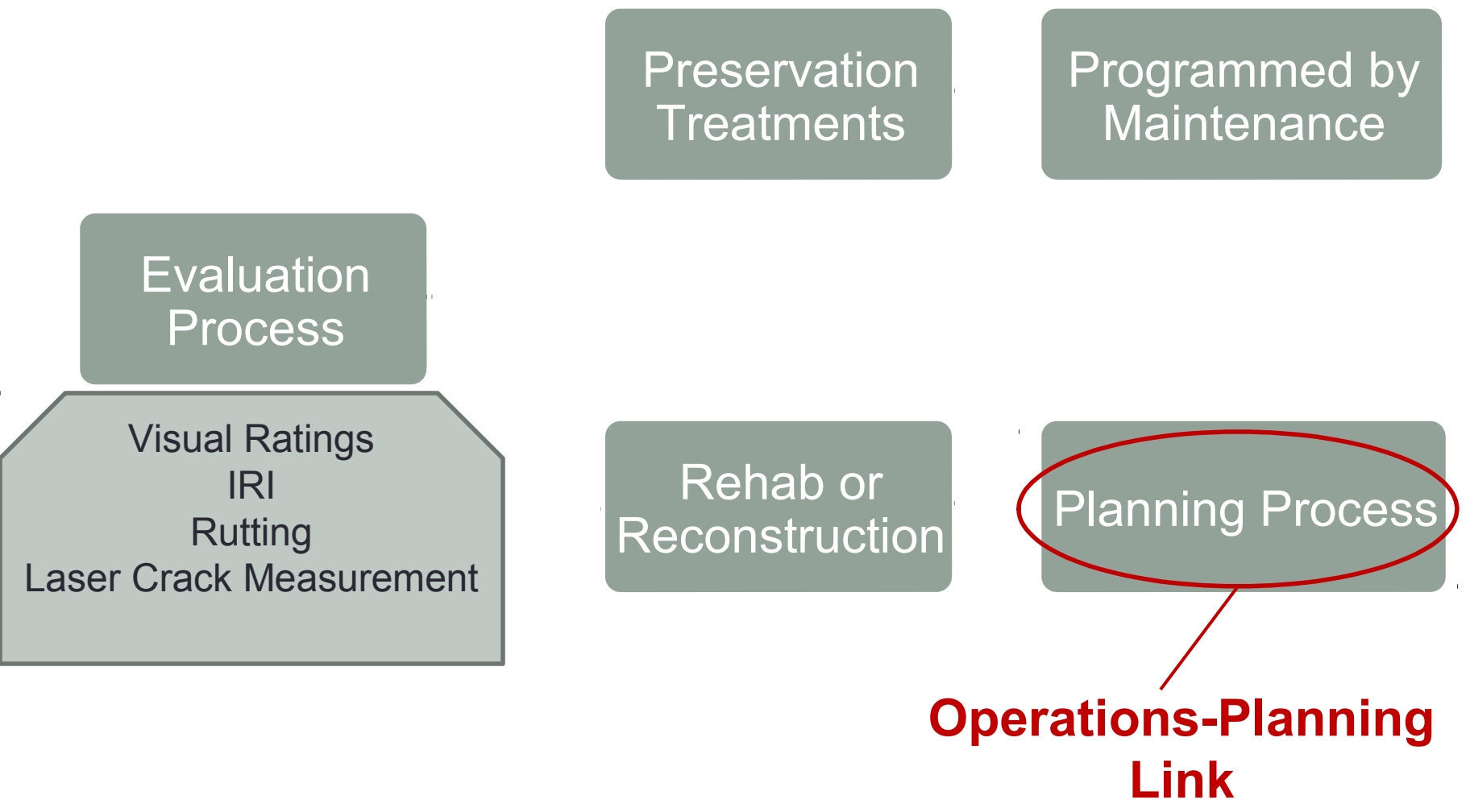
# Defining Needs - Safety

## Roadway Departure Corridors

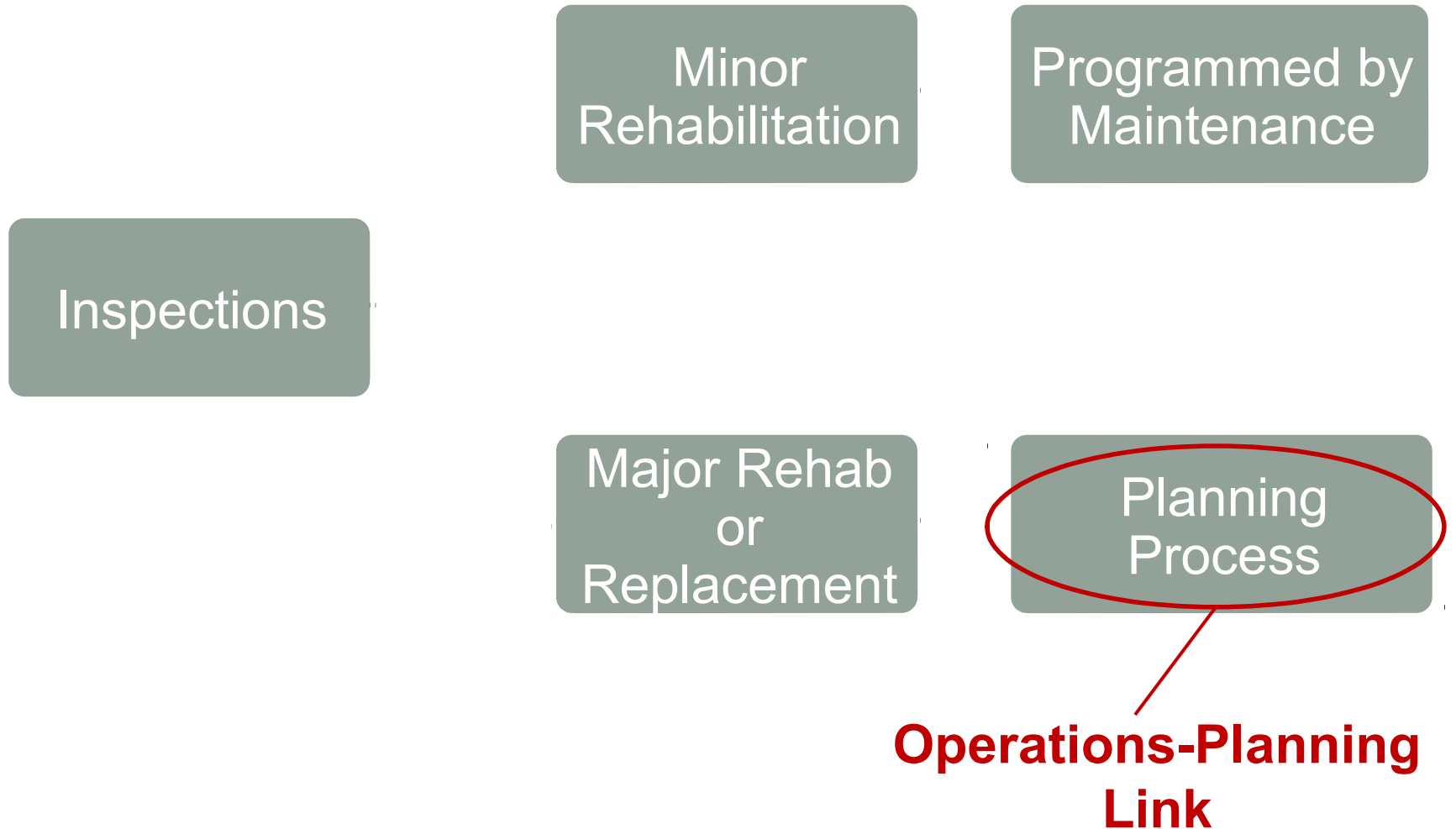
- Location
- Crashes
- Functional Class
- Speed Limit
- # of Lanes



# Defining Needs – Pavements



# Defining Needs – Bridges



# Defining Needs – Other Assets

- Sign Management
- Pipe/Culvert Management
- Guardrail
- Cable Barrier
- Striping

# KYTC Performance Measures

Area	Measure	SCOPM	KYTC
Safety	Number of Fatalities	☐	
	Fatality Rate	☐	
	Number of Serious Injuries	☐	
	Serious Injury Rate	☐	
Pavements	Interstate Roughness	☐	
	Non-Interstate NHS Roughness	☐	
	Non-NHS Roughness		☐
	Pavement Structural Health	☐	
Bridges	NHS Structurally Deficient Bridges	☐	
	NHS Bridges in Good or Fair Condition	☐	
	Non-NHS Structurally Deficient Bridges		☐
	Non-NHS Bridges in Good or Fair Condition		☐

# KYTC Performance Measures

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	NHS Bridges in Good or Fair Condition	☐	
	Non-NHS Structurally Deficient Bridges		☐
	Non-NHS Bridges in Good or Fair Condition		☐

# Improving Resource Allocation

## Unscheduled Needs List

- Over 2400 projects
- Over \$60 Billion in Cost
- Approximately 6300 miles

Kentucky awards about \$1 billion in transportation projects annually.

Kentucky has 27,600 miles of state-maintained roadways.

# District Transportation Plans

## Highway District 12 Transportation Plan

Kentucky Department of Highways

October 2011



District 1

District 2

District 3

District 4

District 5

District 6

District 7

District 8

District 9

District 10

District 11

**District 12**

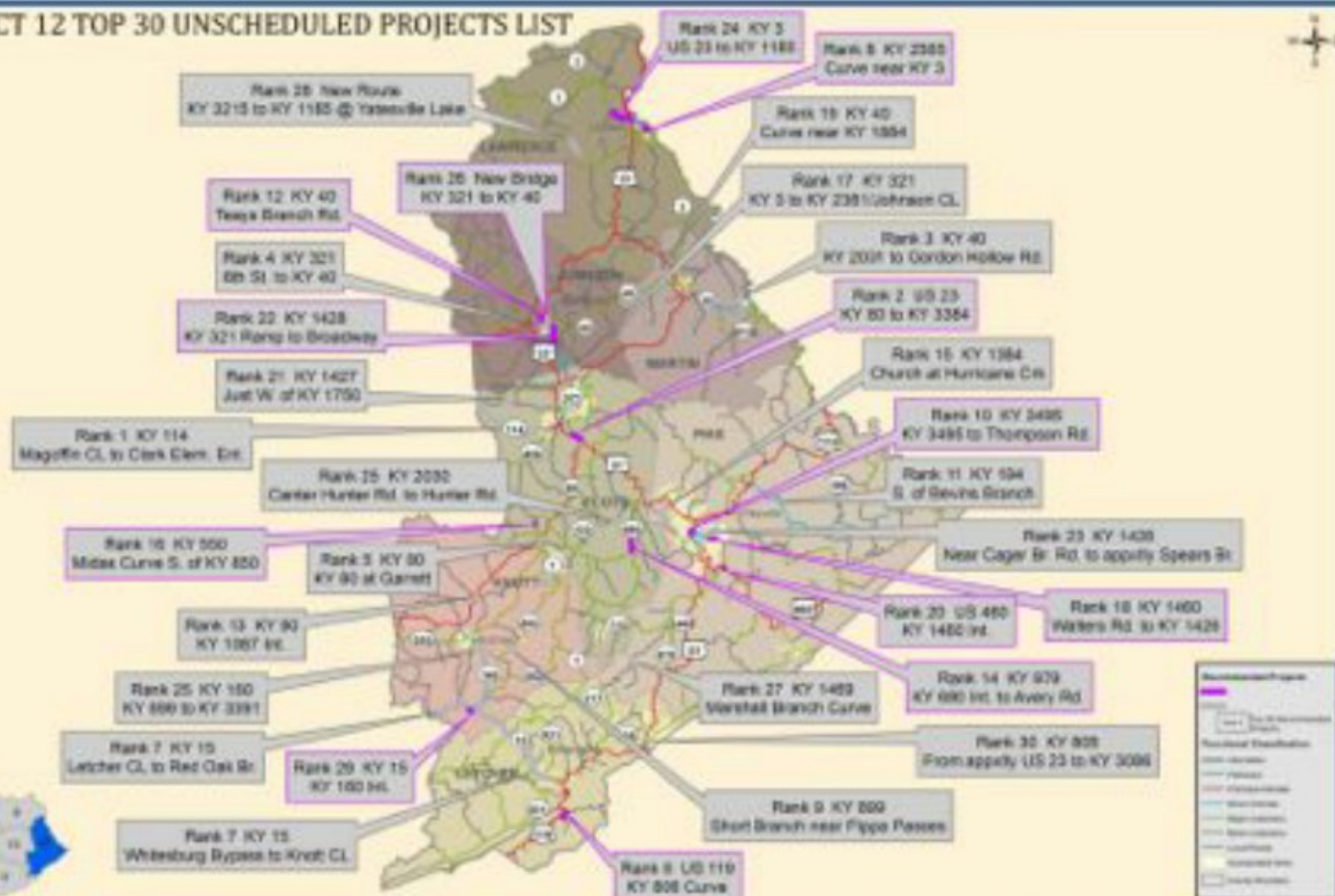




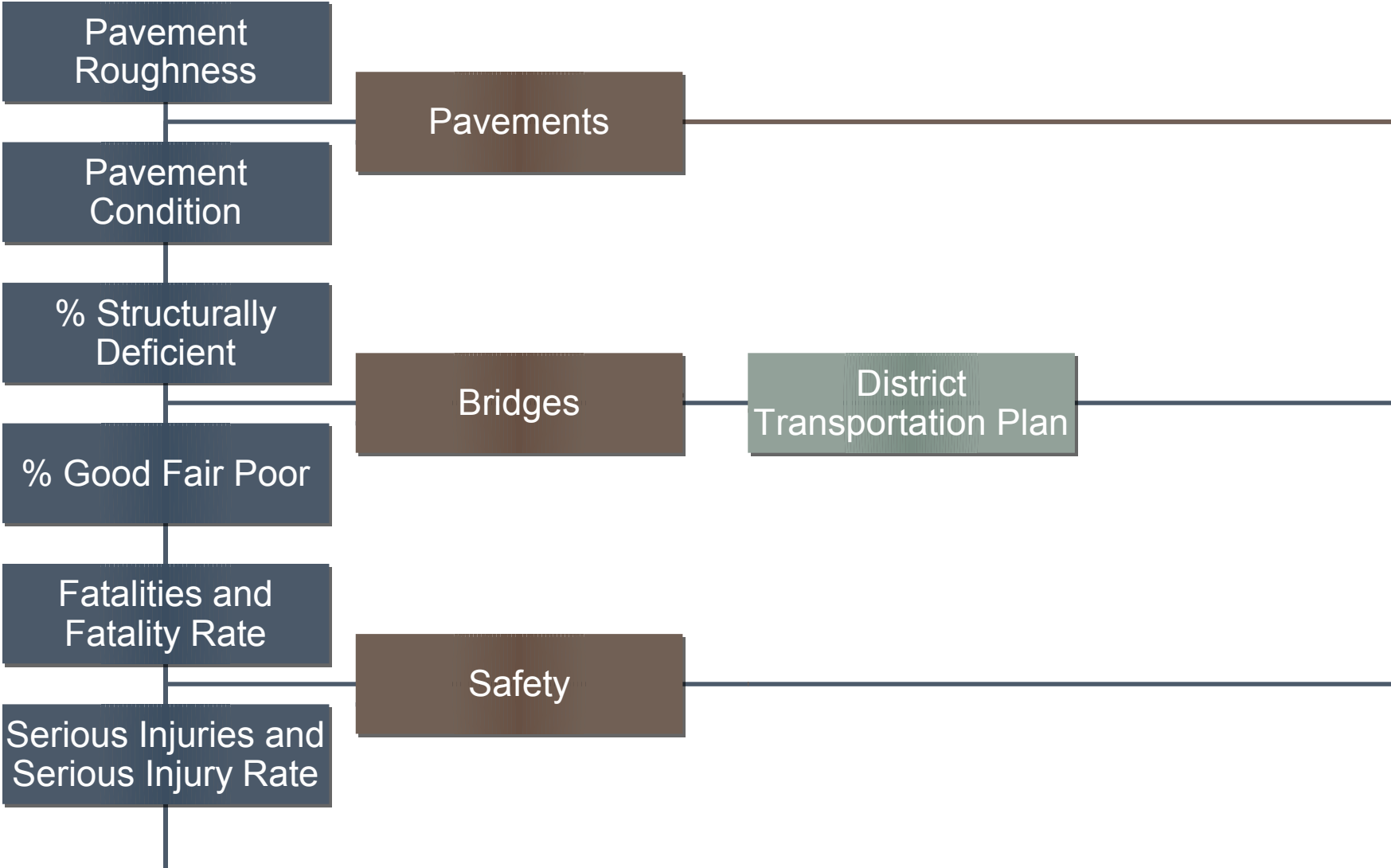
# District Transportation Plans



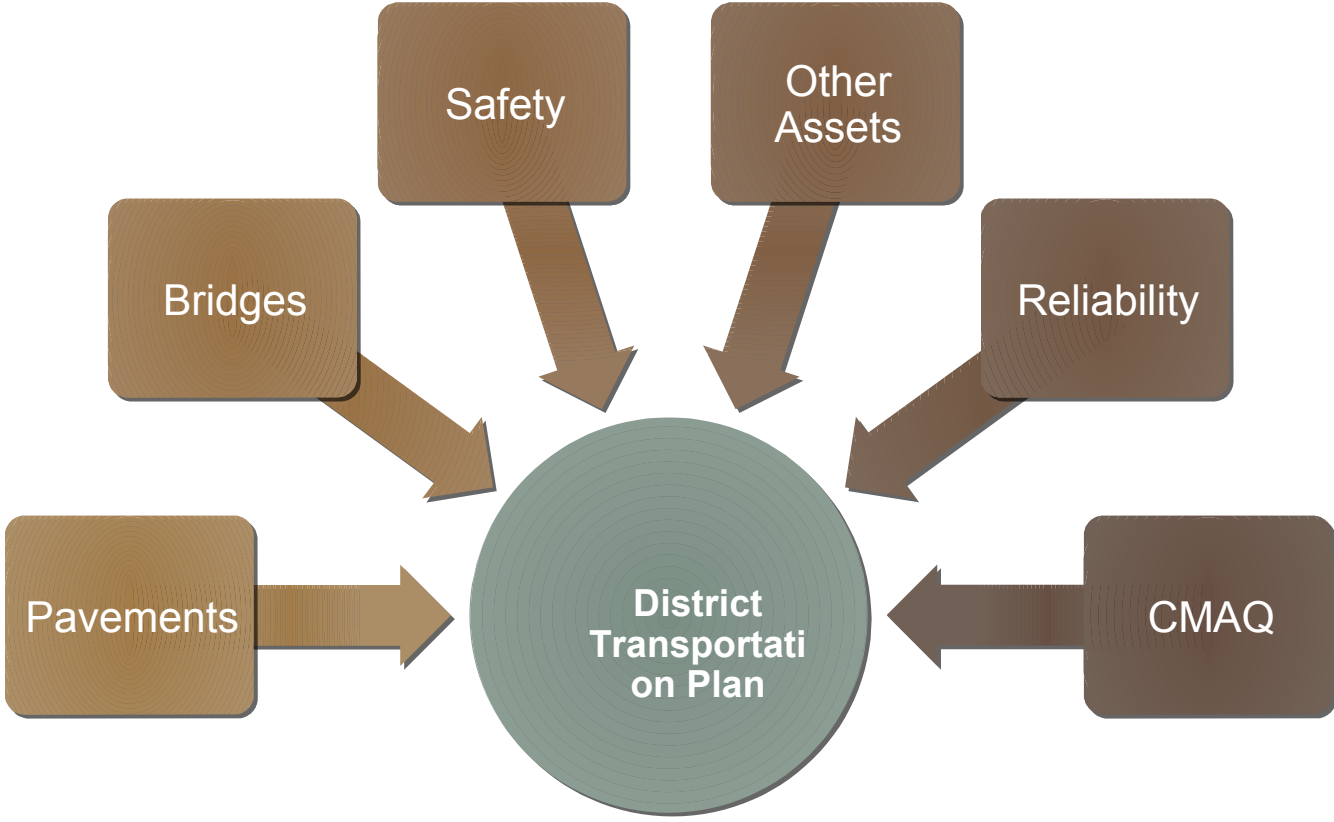
# HIGHWAY DISTRICT 12 TOP 30 UNSCHEDULED PROJECTS LIST



# Operations-Planning Link



# Other Inputs



# Next Steps

- Fully Develop Pavement/Bridge Management Programs
- Continue Development of Other Asset Management Programs
- Establish Targets for Performance Measures
- Incorporate Risk