



# "Rural Local" Road Segments

Spring 2017  
Analysis



# A Winter to Remember...

**“Winter storm watch in effect for Willamette Valley -  
Freezing rain could create dangerous conditions”**

*The Register-Guard, December 8, 2016*

**“Portland, Oregon, May Be America's Most Winter-Fatigued City in 2016-17”**

*The Weather Channel, February 1, 2017*

**“It’s official: February 2017 rainiest ever”**

*KOIN 6, March 1, 2017*

**“Oregon's winter was the coldest in 24 years”**

*Oregon Live, March 13, 2017*



# A Little of Everything



Flooding



Landslides



Snow/Ice



Downed Trees



# What about our roads?





**Pihl Road**



**Porter Road**



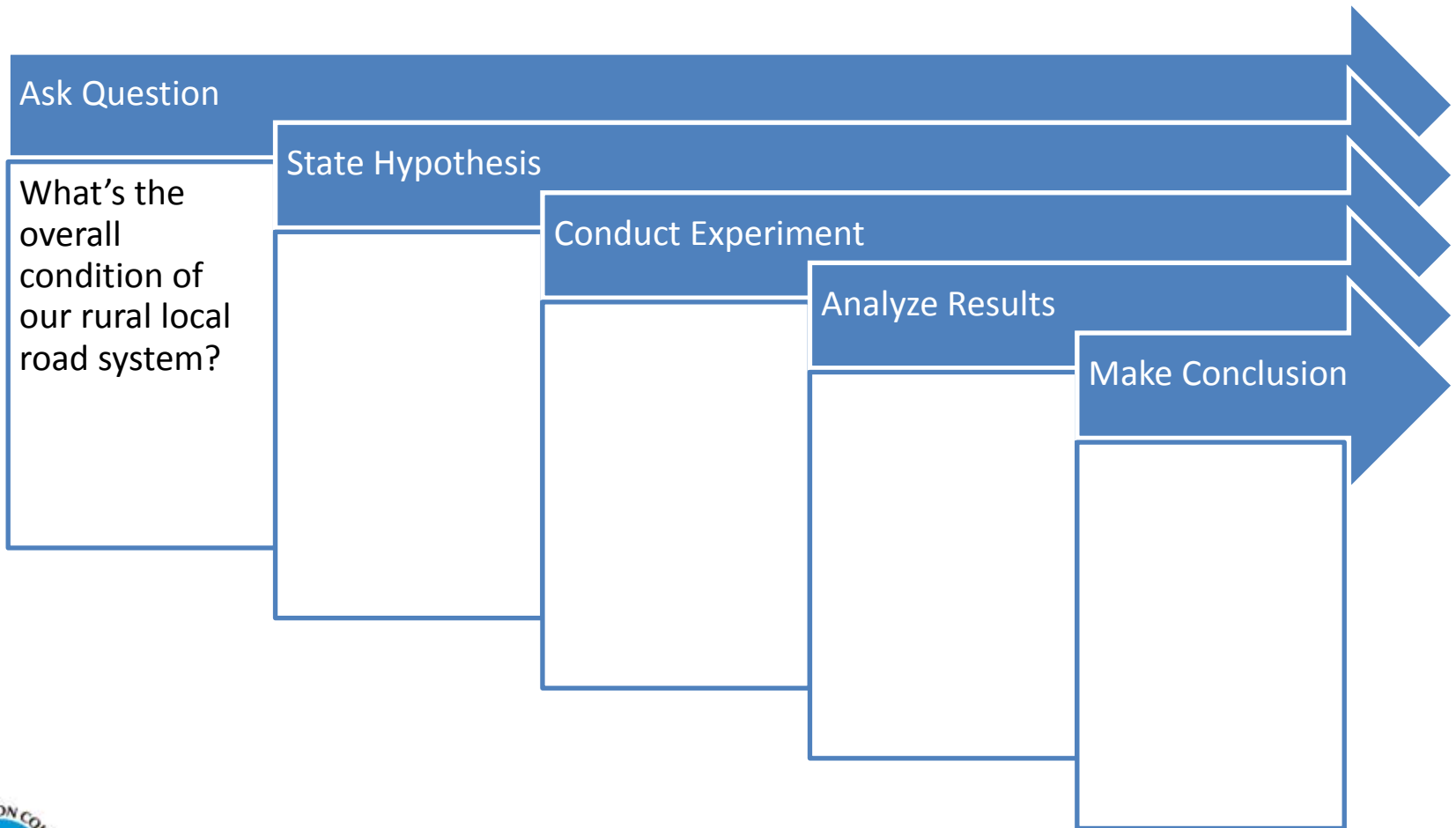
**Reiling Road**



**Raynard Road**



# The Scientific Method



# The Scientific Method

Ask Question

What's the overall condition of our rural local road system?

State Hypothesis

The rural locals have had the least amount of surface maintenance in recent years which may mean that there is widespread and extensive damage.

Conduct Experiment

Analyze Results

Make Conclusion

# Priority Matrix

## Road Maintenance Priority Matrix Road Classification / Priority\*

Activity	Arterial	Collector	Rural Resource Route**	Neighborhood Route	Local Road
Emergencies / Hazards	1	1	1	1	1
Mandated	1	1	1	1	1
General Maintenance	2	3	4	5	8
Minor Improvements	6	7	11	13	14
Reconstruction	9	10	12	15	16

\* "1" is the highest priority; "16" is the lowest.

\*\* Resource Routes are an identified network of rural local roads important to the economy and connectivity. Their designation may be adjusted periodically as needed as part of the Board-adopted annual maintenance program.

From Goal 11: Maintenance, adopted by the Board in A-Engrossed Ordinance 768





# The Scientific Method

## Ask Question

What's the overall condition of our rural local road system?

## State Hypothesis

The rural locals have had the least amount of surface maintenance in recent years which may mean that there is widespread and extensive damage.

## Conduct Experiment

Utilize our contracted pavement inspection team to assess all rural local road segments.

## Analyze Results

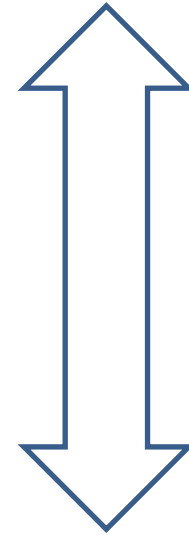
## Make Conclusion

# Pavement Assessment

## Road Assessments

Typical Year: 25%

2017: 100%



# The Scientific Method

## Ask Question

What's the overall condition of our rural local road system?

## State Hypothesis

The rural locals have had the least amount of surface maintenance in recent years which may mean that there is widespread and extensive damage.

## Conduct Experiment

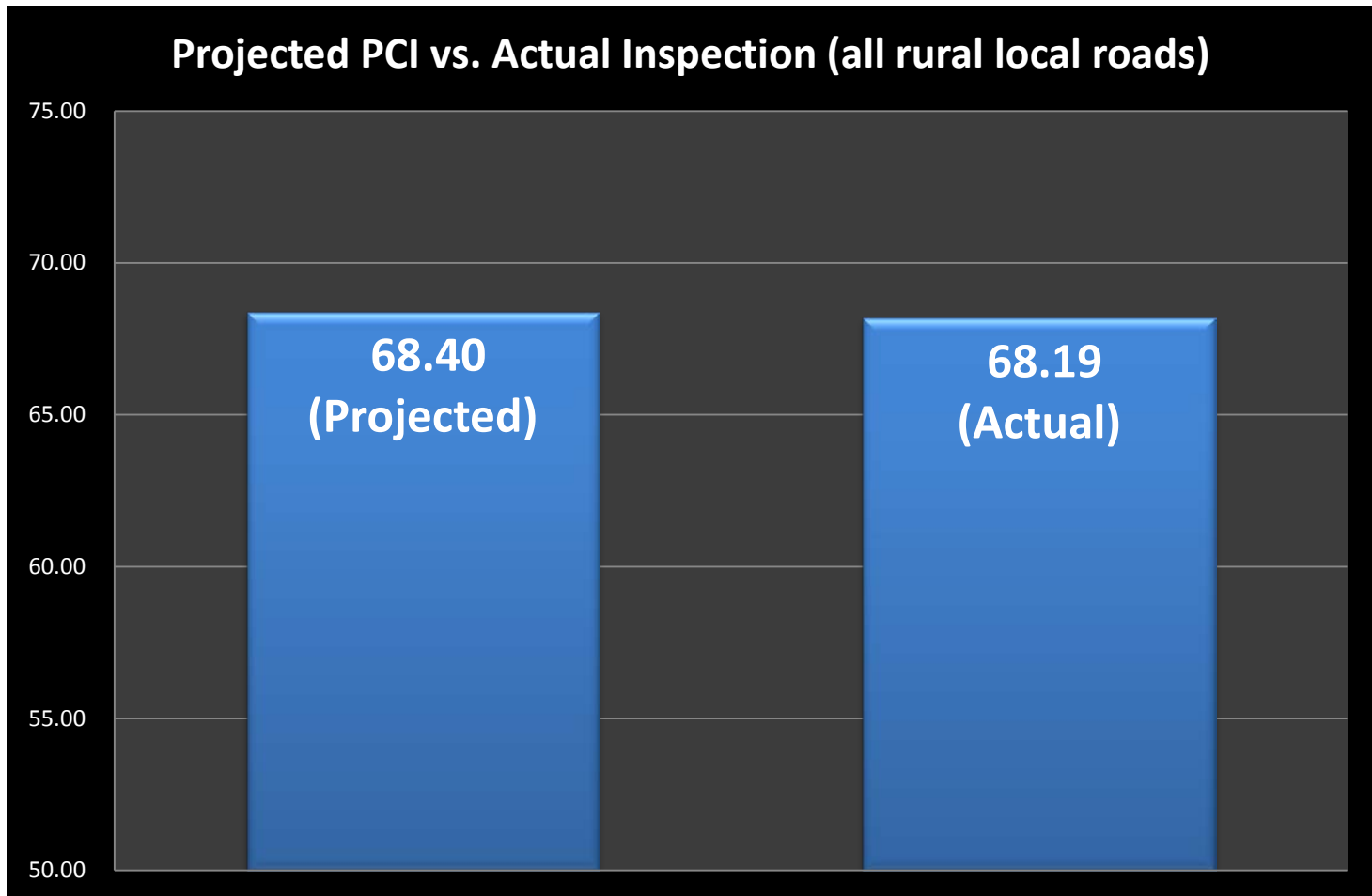
Utilize our contracted pavement inspection team to assess all rural local road segments.

## Analyze Results

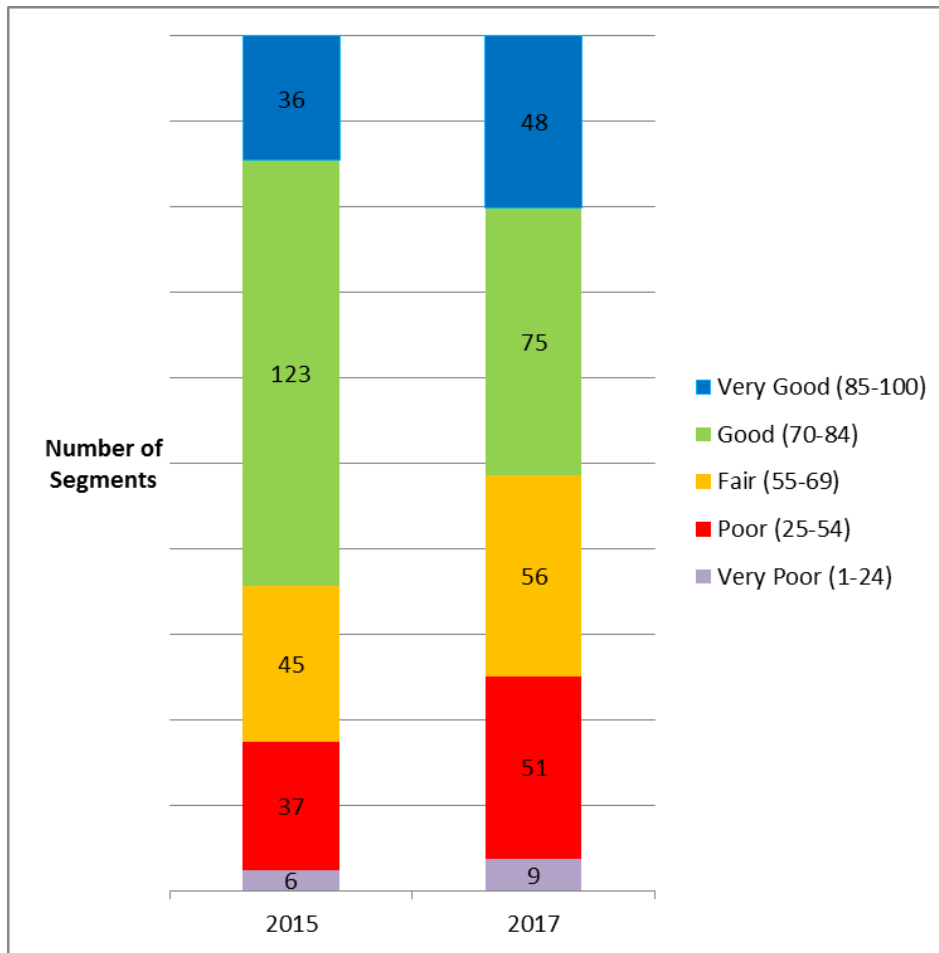
Updated PCIs were established for individual road segments as well as the overall system PCI.

## Make Conclusion

# Overall System PCI

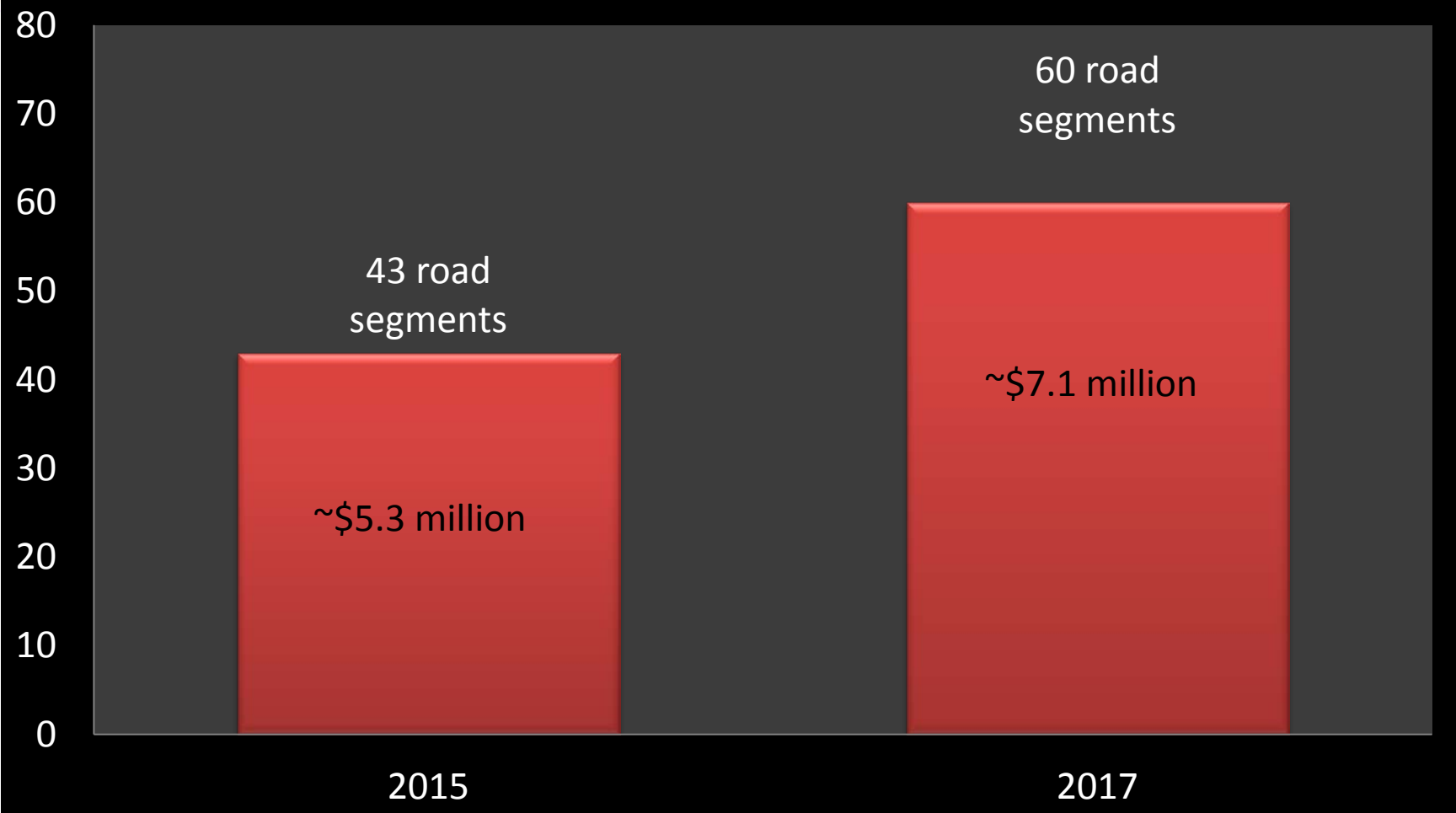


# Condition Categories





# Low PCI Rural Local roads (< 55)



# The Scientific Method

## Ask Question

What's the overall condition of our rural local road system?

## State Hypothesis

The rural locals have had the least amount of surface maintenance in recent years which may mean that there is widespread and extensive damage.

## Conduct Experiment

Utilize our contracted pavement inspection team to assess all rural local road segments.

## Analyze Results

Updated PCIs were established for individual road segments as well as the overall system PCI.

## Make Conclusion

The rural roads performed surprisingly well, given the circumstances, allowing us to focus our attention on a relatively small data set.

# What's Next?

- Continue responding to service requests with isolated spot repairs (i.e. pothole patching)
- Consider machine patching, dig outs, or other surface treatments
- Review the "Preservation" routes
- Re-Evaluate the common road segments between 2015 and 2017
- Committee's thoughts and recommendations?





Questions?

