

### Presentation Overview

- > Pavement Management Background
- Process
- Current Conditions
- Budget Analysis
- Project Selection
- Next Steps

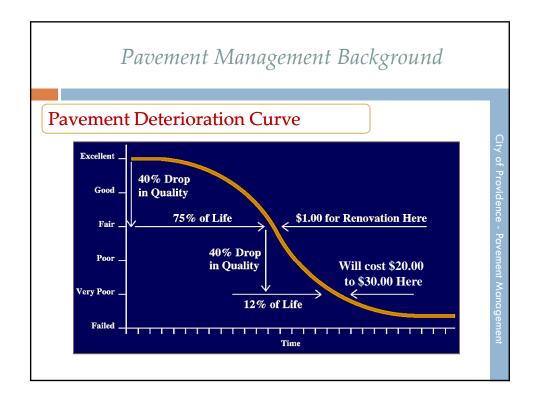
<sup>o</sup>rovidence – Pavement Management

## Pavement Management Background

### What is Pavement Management?

The practice of planning for pavement maintenance and rehabilitation with the goal of maximizing the value and life of a pavement network.

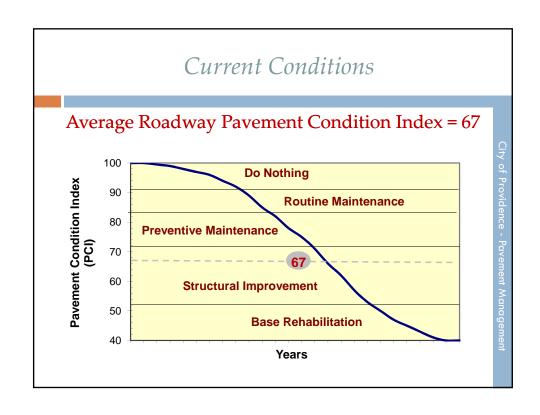
Otherwise known as "Getting the Biggest Bang for Your Buck"

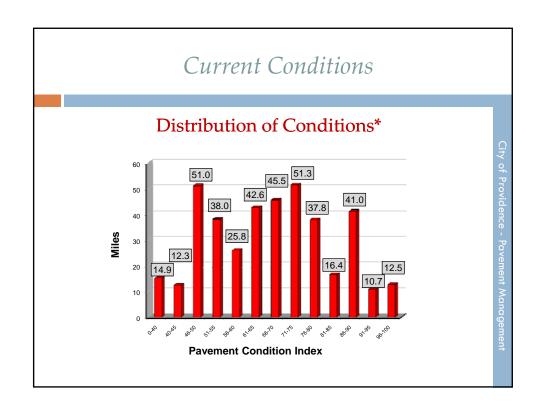


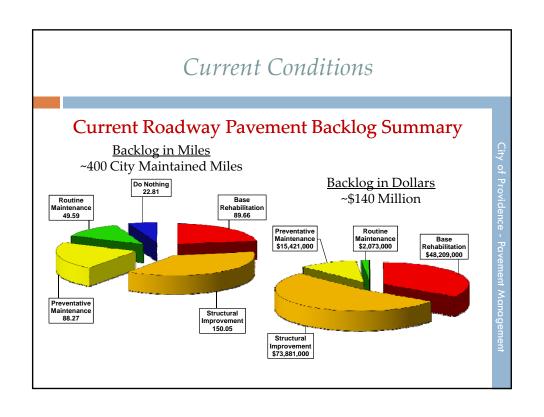
## Pavement Management Process

#### The Process

- Develop Pavement Management Database
- ❖ Pavement distress identification and quantification (Visual Inspection Only)
  - Performed in 1997, 2006, 2012 (partial)
- \* Refine Pavement Deterioration Curves
- ❖ Pavement Condition Index (PCI) calculation on a 0 100 scale
- Define Treatment Options and Costs
- Develop list of candidate projects
- Apply engineering and local judgment to define annual road program



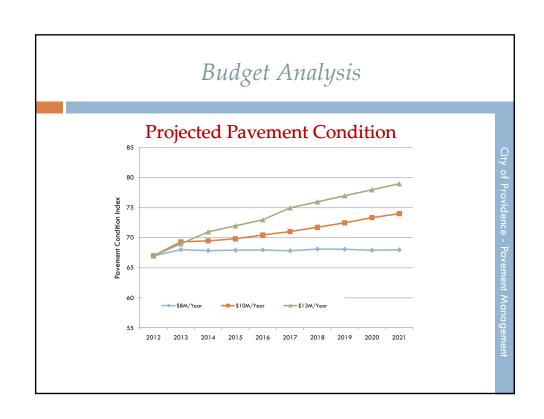


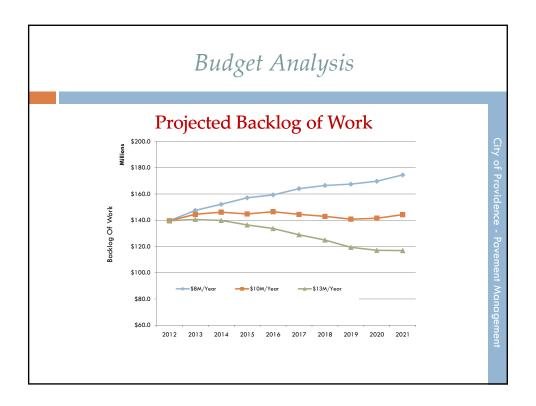


# Budget Analysis

### **Budget Analysis**

- \$8 Million per year- Maintains PCI
- \$10 Million per year- Will increase Average PCI to 74 in 10 years
- \$13 Million per year- Will increase Average PCI to 75 in 5 years.





## Project Selection

- System uses Cost/Benefit Calculation to Prioritize Projects
  - Factors Increasing Benefit
    - Traffic Volume
    - Lower Cost
    - Worse Condition (Lower PCI)
    - How Long the Repair Type is expected to last
- Key Concepts
  - Repair roads before they fall into a more expensive "treatment band"
  - Fix the Roads used by the most people.

# Next Steps

- Determine Funding Level
- Utilize GIS to Coordinate Projects Geographically
  - Reduce Mobilization cost for contractors
  - "Neighborhood" Planning
- Coordinate with Utility Companies
- Perform Project Level Evaluations and Testing to determine actual repair for each candidate street.

