



Introduction

- € From the 1990 AASHTO Guide:
- "Pavement management systems, similar to any other engineering tool must be reliable in order to be credible. The feedback process is crucial to verify and improve the reliability of a PMS."



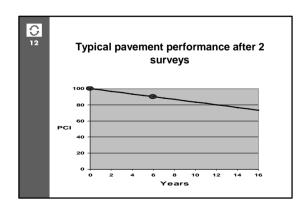
Feedback Plan

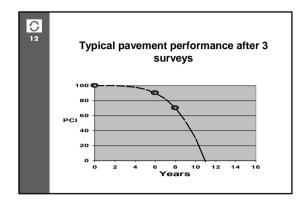
- **← Pavement Performance Models**
- € Treatments
- ϵ Treatment Trigger Levels
- € Treatment Costs
- € User Cost Models
- ϵ Data Quality Use Cost

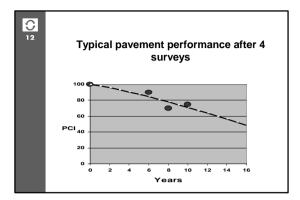


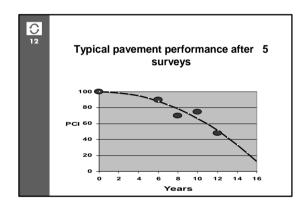
Pavement Performance Models

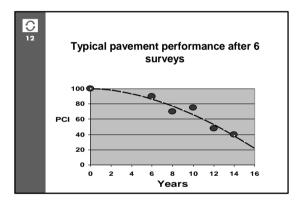
- $_{\mbox{\tiny ε}}$ First developed by expert opinion or from limited data
- $_{\varepsilon}$ Must be re-calibrated with more extensive field data

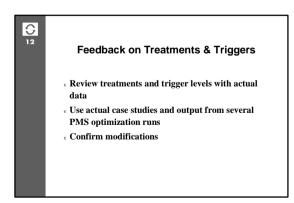


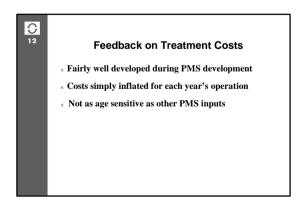














Feedback on Data Quality Use Cost

- € Quality control of inventory/condition data essential
- $_{\varepsilon}$ Feedback loop on data quality regular part of PMS process
- $_{\varepsilon}$ Periodically raise and answer questions of cost, quantity, and use of data



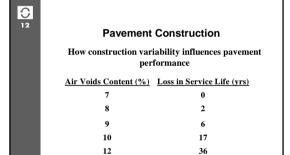
Other Feedback Areas

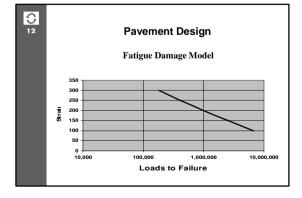
- e Pavement related research
- ϵ Pavement construction on performance
- e Pavement design



Pavement Research

- $_{\rm e}$ Pavement management data used in research of pavement performance
- $_{\varepsilon}$ Can confirm cost effectiveness of efforts like Superpave







$_{\varepsilon}$ "The PMS should be reviewed periodically to make certain

- that it is achieving the original objectives.
- $_{\mbox{\tiny ε}}$ Follow up provides the opportunity to identify and make improvements in the system.
- $_{\mbox{\tiny ε}}$ Feedback is essential to the long-term success of a PMS and to maximize its ultimate benefit to the agency."



Instructional Objectives

- ϵ Explain why feedback loop is important
- € Describe processes needing feedback loop
- € Describe type of feedback required
- $_{\varepsilon}$ Describe how to establish feedback loop
- **Describe benefits to other agency needs**