Pavement Management – Making It Work

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Keys to a Successful System

- Results are used to influence agency decisions
  - Confidence in the data
  - Buy-in from agency personnel
  - Recommendations continue to support the decision process over time
  - Concepts are promoted regularly
Building Confidence in Data

Location referencing

State of California Highway System
Building Confidence in Data

- Condition data
  - Repeatable
  - Relevant
  - Accurate
- QC/QA activities
- Age since last treatment
Establishing Buy-In

Year 1

Year 2
Establishing Buy-In

- Acceptance of Recommendations
  - Seek input into model development
  - Establish steering committees
Establishing Buy-In

Usefulness of information
Establishing Buy-In

Accessibility to information
Maintaining Support With Time

Pavement management models
Maintaining Support With Time

- HPMS Reassessment
- MEPDG Calibration
Promoting Concepts

Educating decision makers

Condition Deterioration & Treatment Triggers / Resets

Condition Index

Remaining Service Life (RSL) = 0

Original Pavement

Seal Coat

Thin Overlay

Structural Overlay

Reconstruction

Years / AADT (ESALs)
Pavement Management Challenges

- Data quality
- Data integration
- Model development
- Lack of acceptance
- Inadequate resources
- Political pressure
- Competing priorities
- Others?
Addressing Technical Issues

- References
- Training Classes
- Conferences/Meetings
- Peer Exchanges

7th International Conference on Managing Pavement Assets

ICMPA
CALGARY, CANADA 2008
Software/Data Availability Issues

Business process review
- Where is the data? What format is it in?
- Who uses the data? What format do they need it in?
- What changes are needed to better align the business processes?

Gap analysis
- Document existing capabilities
- Identify needs
- Evaluate gaps between the two
Resource/Support Issues

- Business case study
  - Needs/criteria/resource requirements/results
  - Peer review

- Quantifying the benefits of pavement management
Concluding Thoughts

Pavement management is an important tool for transportation agencies.

Success must be addressed on multiple fronts.