Asphalt Pavement Evaluation and Preservation



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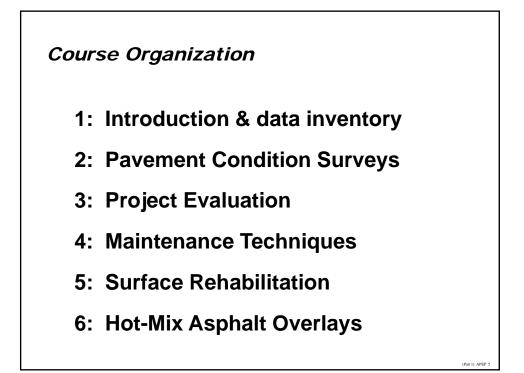
Introduction

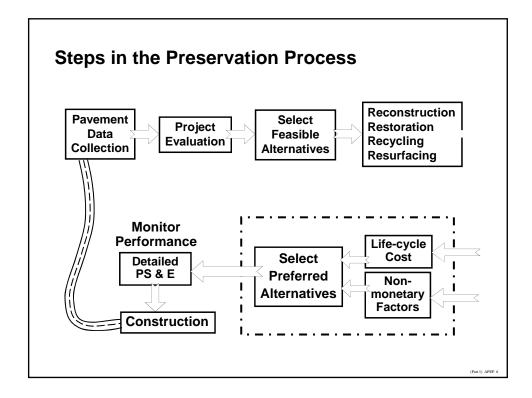
Rehabilitation

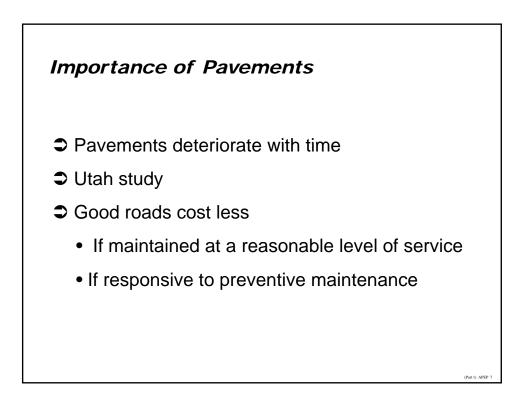
- Traffic loads / volumes
- Aging pavement system
- Limited financial resources

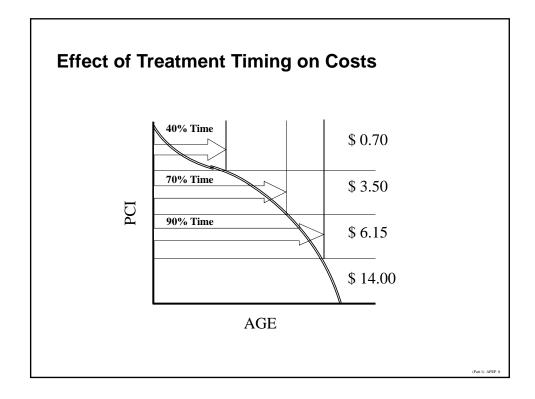
Need for training in rehabilitation

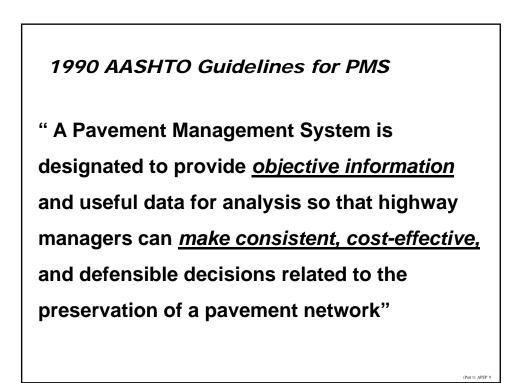
- More difficult than new design
- Technology advancing rapidly







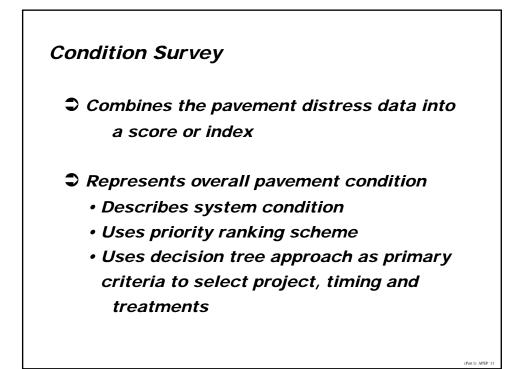




Four Activities

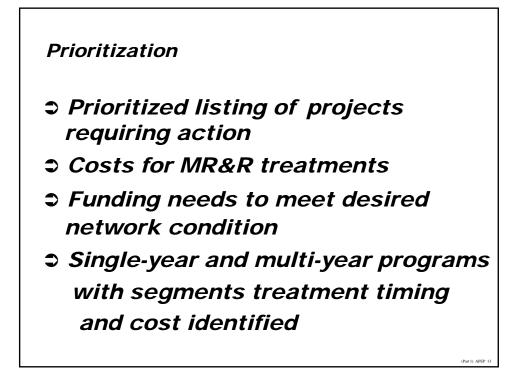
⇒ Inventory

- Construction, maintenance and rehabilitation history
- Traffic
- Pavement condition survey
- Project prioritization
- Budget development



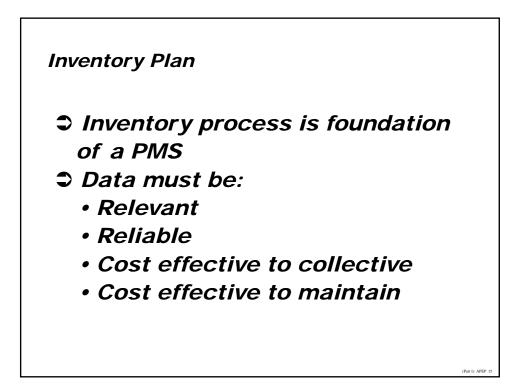
Condition Survey Outputs

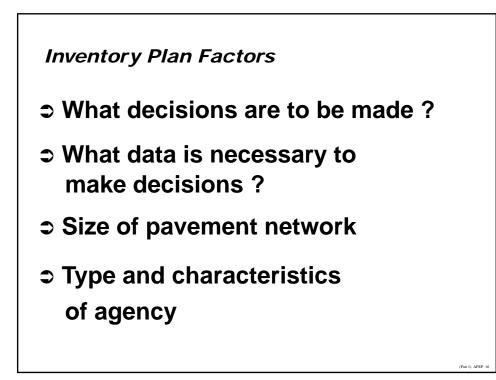
- Ranking of pavement segments by condition index
- Identification of MR&R strategies and timing for individual pavement segments
- Estimate of funding needs for selected treatments

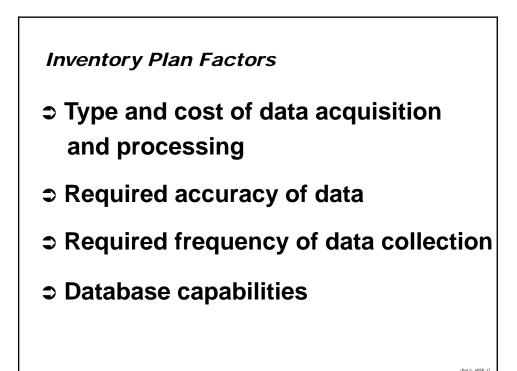




- **C** Provide an estimate of budget requirements
- Characteristic At prescribed levels of performance
- Primary objective is to provide information for specific pavement segments:
 - Preferred MR&R for each project
 - •MR&R costs
 - •Expected MR&R performance







Two Important Rules

Collect only the data you need !

Collect the data only when you need it !

Typical Data Element

Pavement

- Location
- Geometry
- Pavement Structure & History
- Traffic

Pavement Condition

Additional Data Elements

Drainage information

Geographical / environmental classification

Proposed work / work-in-progress

Other information

Defining Sections

The length or size of sections will determine volume of data to be collected

Large sections

Small sections

Section requirements



- **Change in pavement type**
- Change in pavement structure
- ⇒ Change in traffic
- Boundary between previous construction
- Change in subgrade
- Geographical of political boundaries
- Change in pavement condition

