Preserving America’s Transportation Infrastructure

King W. Gee
Associate Administrator for Infrastructure
Federal Highway Administration
Washington, D.C.

November 30, 2004
Midwest Pavement Preservation Partnership
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National Statistics:

3,963,262 miles of Roads
590,685 Bridges
Stay Out of the Mud!

Washington-Richmond road, 1919
NMAH, Archives Center, API Collection
Challenges

Congestion

Aging Infrastructure

Freight Movement
2,523,468 miles of paved roads. 43.5% are in “good” condition, 14% are in “unacceptable” condition.
590,685 Bridges in National Bridge Inventory
14.1% are structurally deficient
13.8% are functionally deficient
Congestion

78% Increase in Vehicle Travel
2% Increase in Lane Miles
1% Increase in Road Miles
Truck Volumes in 20 years

[Map of the United States showing truck volumes with different colors representing different volume ranges.]

2020 Daily Truck Volume
- Green: Truck <= 5,000
- Blue: 5,000 < Truck <= 10,000
- Red: Truck > 10,000
- Other

Miles

Battelle, February 25, 2002

U.S. Department of Transportation
Federal Highway Administration
Other Challenges

- Increased financial demands and down-sizing of public agencies
- Highway users - our customers - identified improved “pavement conditions” and reduction of traffic delay as top priorities
7 Biggest Cost Items:

- Pavements
- Structures
- Corridor Projects
- Interchanges
- Widening
- New Highways
- Mega Projects
Old Approach

- Limited Preservation
- Underestimated Traffic, Loads, Costs
- Use Locally Available Materials
- Repaired Worst First
- Design for Lowest Initial Cost
- Limited Design Life
- Limited Economic Analysis
- Insufficient Funds
Worst First is NOT the Best Policy
New Approach
Asset Management

Assuring the Infrastructure is there for Mobility
Asset Management

A strategic approach to maximizing the benefits from resources used to operate, expand, and preserve the transportation infrastructure.
Asset Management

- Network-wide
- Use Economic Principles
- *Preservation First*
- Integrate Programs
- Concentrate on Corridors
- Define Design Life in terms of Traffic
Federal-aid Eligibility

- October 8, 2004 Memorandum on Preventive Maintenance Eligibility
Preventive Maintenance:

“A planned strategy of cost effective treatments to an existing roadway system and its appurtenances that preserves the system, retards future deterioration, and maintains or improves the functional condition of the system without increasing structural capacity."
**Eligible Activity Examples**

- **Roadway Activities:**
  - Crack Sealing and Joint Repairs
  - Seal Coats (fog seals, slurry seals, chip seals)
  - Pavement Patching and Thin Overlays
  - Shoulder Repair
  - Restoration of Drainage Systems,

- **Bridge Activities:**
  - Seismic Retrofit
  - Scour Countermeasures
  - Painting.
• Meet the customers’ demands
• Make existing capital investments last longer
• Stretch available funding
• Reduce the frequency of costly, time consuming, traffic disrupting rehabilitation/reconstruction projects
Preservation and Asset Management won’t bring short-term glory, but they will bring long-term satisfaction!
Questions?

The End