

King W. Gee

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

Midwest Pavement Preservation Partnership

November 30, 2004



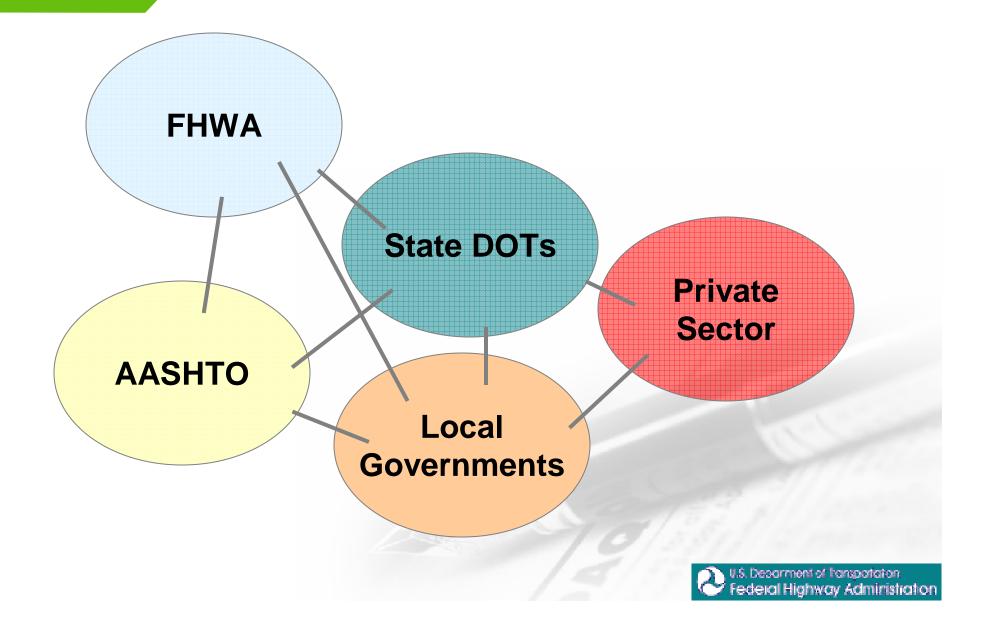
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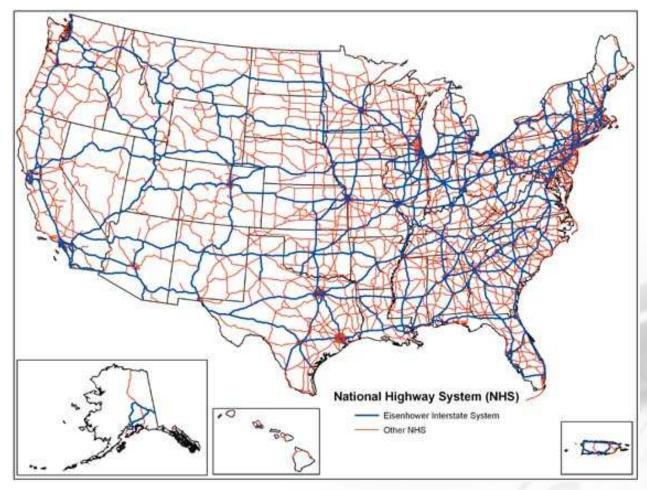
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Highway Agency Relationships



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

STORE BLAZE

IDAL.

SNOL

berry

Congestion

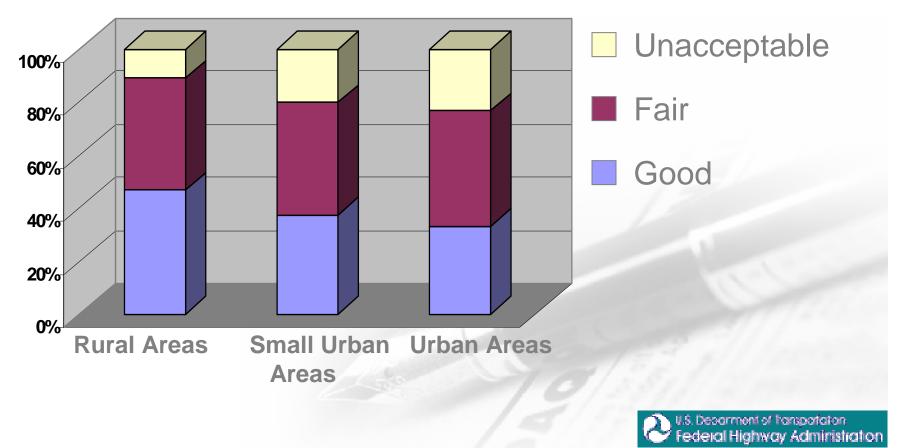
Aging Infrastructure

Freight Movement



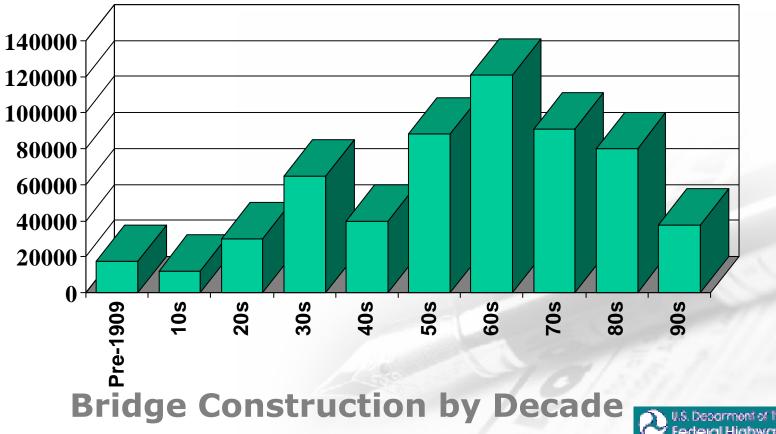
Pavements in the U.S.

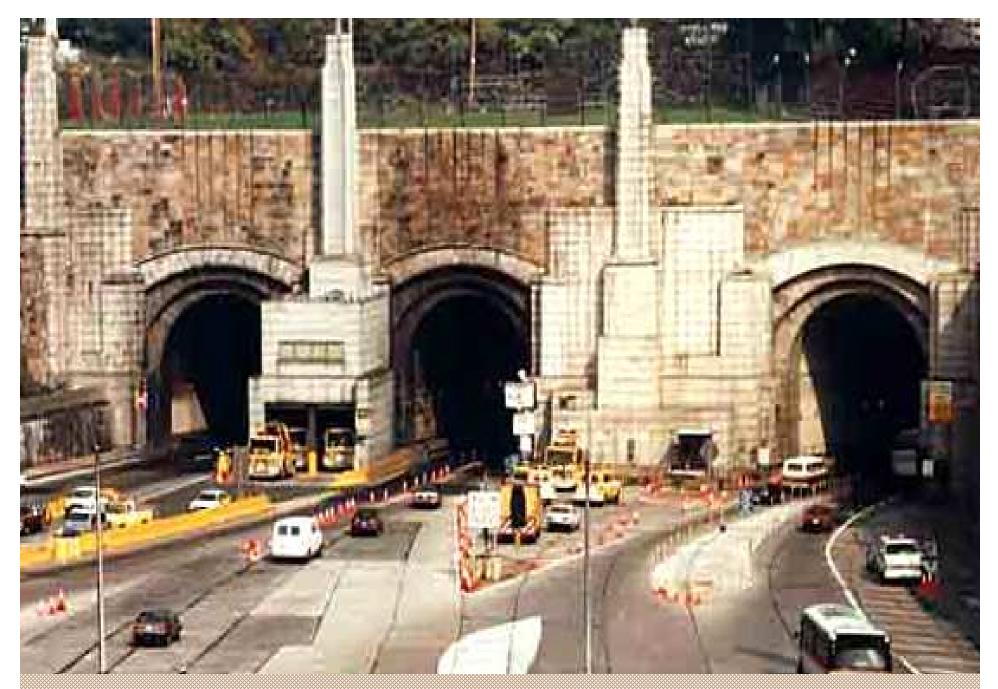
2,523,468 miles of paved roads. 43.5% are in "good" condition 14% are in "unacceptable" condition





590,685 Bridges in National Bridge Inventory 14.1% are structurally deficient 13.8% are functionally deficient





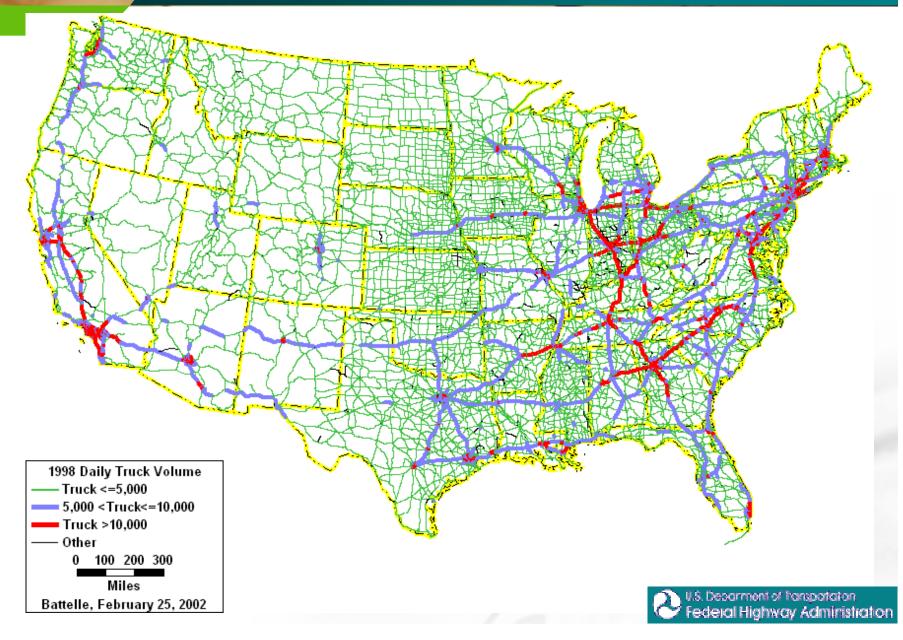
Lincoln Tunnel - New York, NY

Congestion

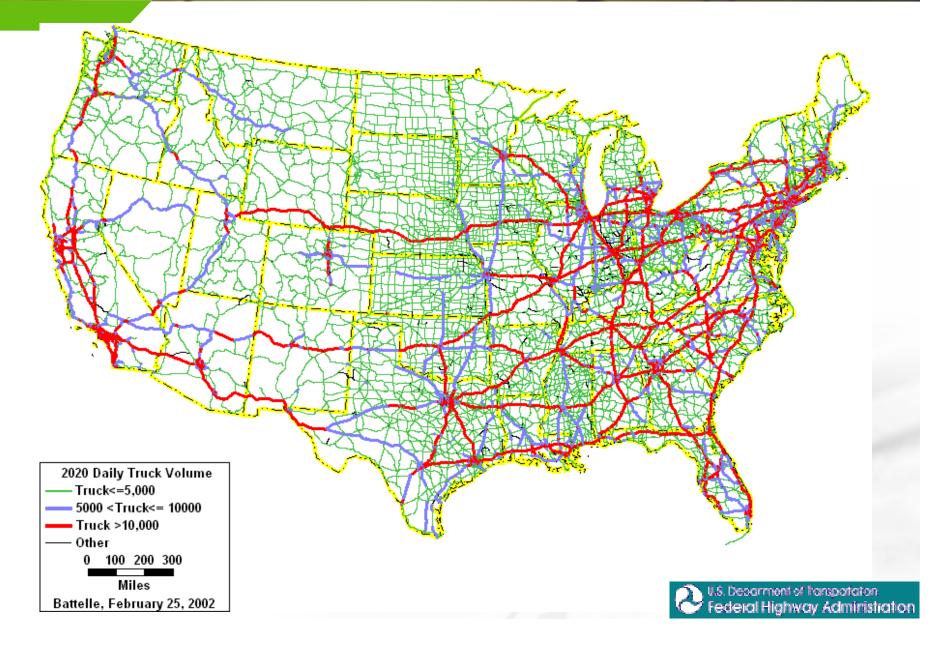
78% Increase in Vehicle Travel2% Increase in Lane Miles1% Increase in Road Miles



Truck Volumes - NHS - 2000



Truck Volumes in 20 years



Other Challenges

- Increased financial demands and down-sizing of public agencies
- Highway users <u>our customers</u> 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**







- 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

The Old Approach



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
- http://www.fhwa.dot.gov/preservation/100804.htm



AASHTO Definition

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.



A Priority for Preservation

- 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!







100% PL-1 are pavements in "good" condition PL-3 are pavements in "poor" condition 90% Data Labels are for the noninterstate system g 80% 84.8 õ System in Level 70% 72.5 77 8 60% 50% of Highway 40% 30% 22 20% 10% ŏ Ň 0% 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003

Performance Level

Interstate PL1 (Good) Interstate PL3 (Poor) Interstate PL1 (Good)



Non-Interstate PL3 (Poor)

Questions?

