



Reliable Pavement Management and Design -- Needed Now More Than Ever!!



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Management

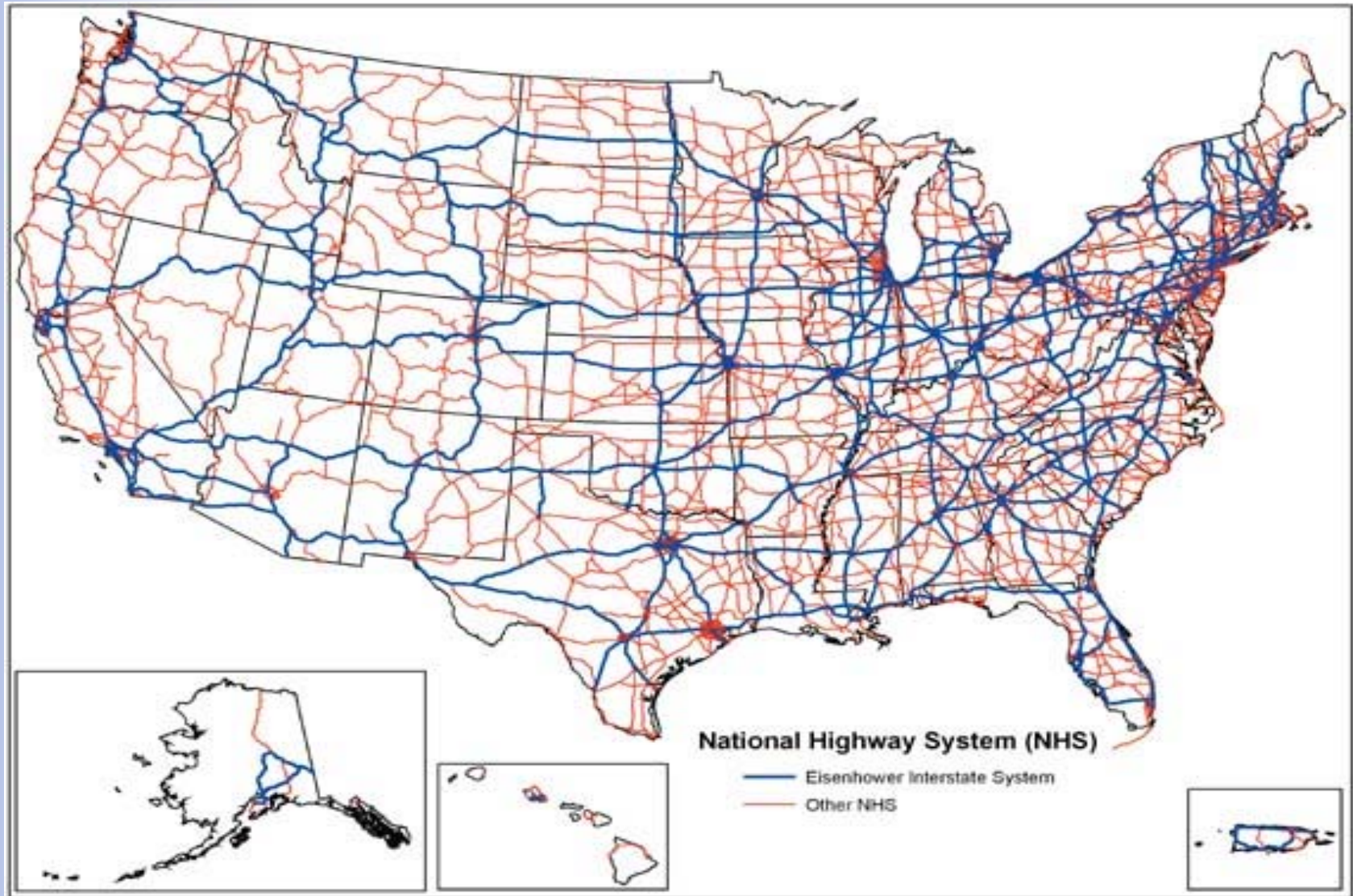
2008 SE Pavement Management and
Design Conference

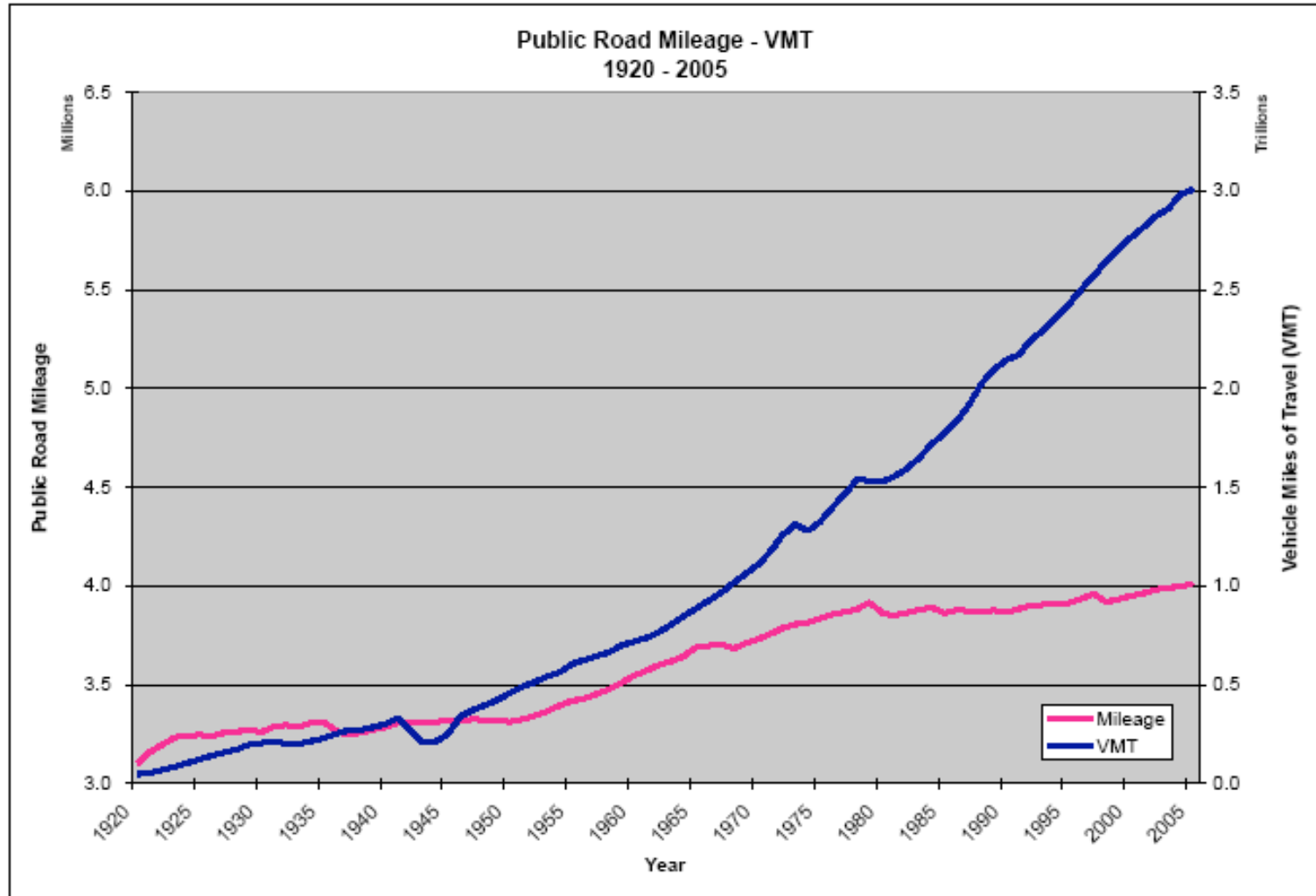
Overview

- **Challenges**
- **Asset Management**
- **Pavement Management Systems**
- **Transportation System Preservation**
- **FHWA Resources**

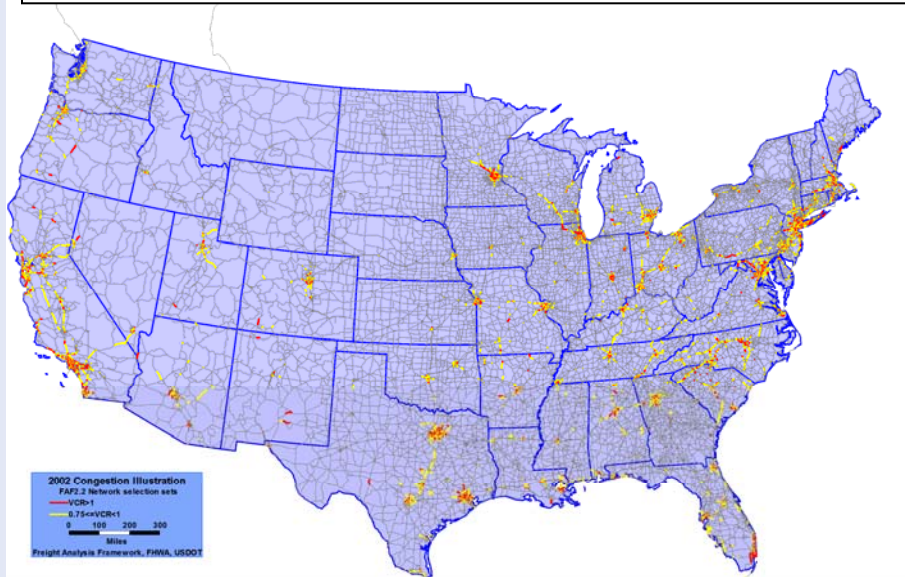


Extensive Network for 50 Years of Growth



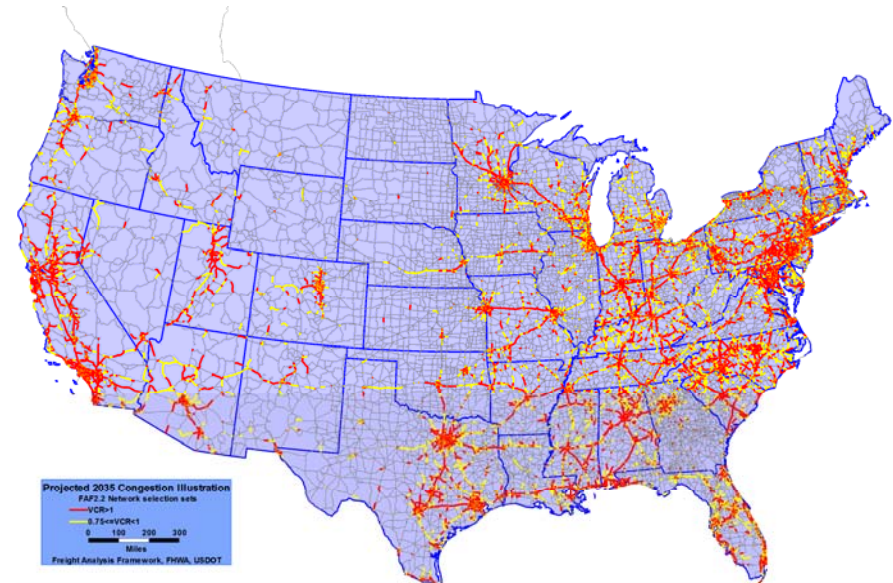


Congested Highways

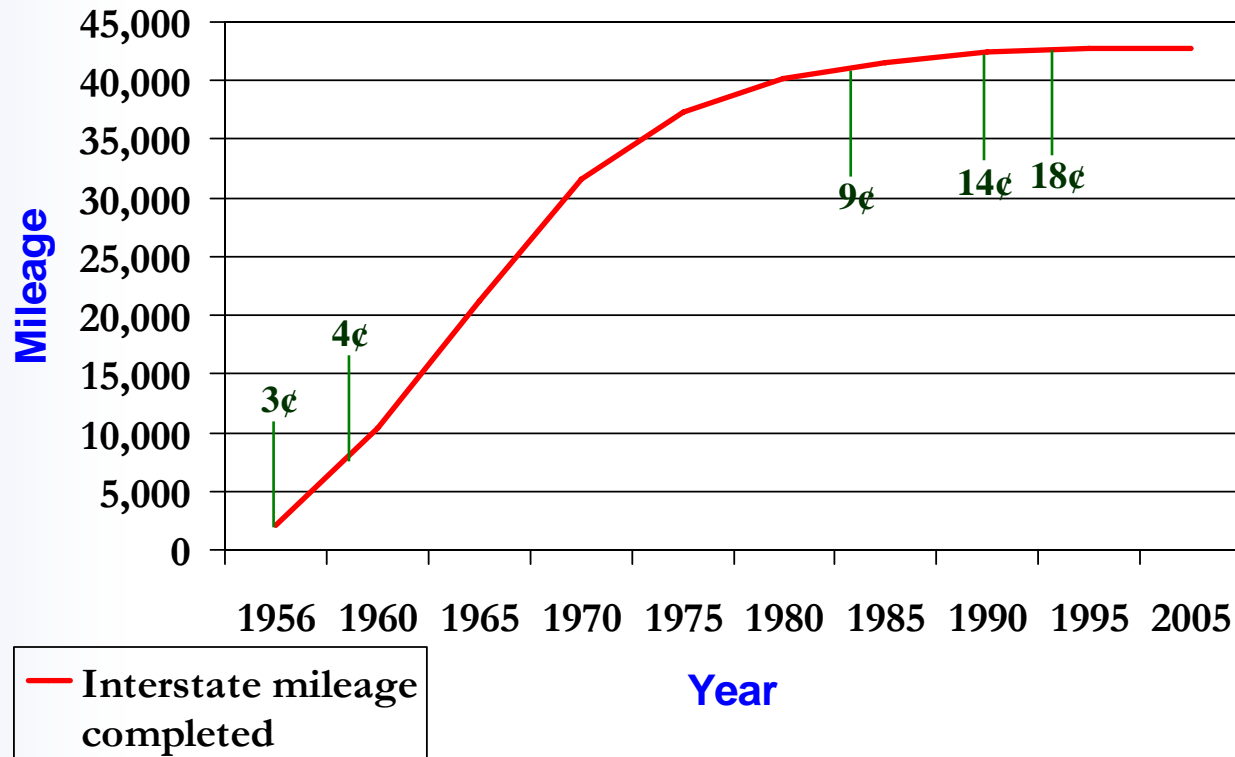


– 2002

2035 –



Interstate Highway System Development and Federal Gas Tax Rate



National Context

- \$2.0 Trillion Investment
 - Limited dollars
 - Reduced Buying Potential
 - Fewer and fewer resources
- ➔ **Asset Management Imperative**



FHWA Asset Management Focus

- Asset Management Principles Applied to Program Development and Delivery
- Requires Integration of Data
- Involves Economic and Engineering Factors in Decisionmaking
- Fosters Cross-Asset Comparison & Prioritizing of Funding Commitments
- Links Infrastructure Investments to Transportation System Performance



Asset Management

- **Programming to maximize system performance**
- **Design to minimize LCC**
- **Construction to improve customer satisfaction**
- **Framework for decision-making**
- **Where should you spend that next dollar?**



Asset Management Tools

- **Basic Questions**
- **What is the current state of my assets?**
- **What is the required level of service?**
- **What assets are critical?**
- **What are the best investment strategies?**
- **What is the best long-term funding strategy?**



FHWA Office of Infrastructure

- **Program Administration**
- **Pavement Technologies**
- **Bridge Technologies**
- **Highways for Life**
- **Asset Management**



FHWA Office of Asset Management

- **System Management and Monitoring**
- **Construction and System Preservation**
- **Evaluation and Economic Investment**



Pavement Management

- **Inventory**
- **Condition**
- **Strategies**
- **Decision-making**

- **Planning, design, construction, operations and maintenance**



Pavement Management

- **Move away from “worst first”**
- **Optimize use of tools like MEPDG**
- **Adopt ‘preservation’ and ‘whole-life’ strategies**
- **Avoid need to reconstruct**
- **Find your Frank Botelho**



Pavement Management

- **National Conference on Pavement Management – May 2007**
- **International Conference on Pavement Management – June 2008**
- **HIAM Case Studies**
- **HIAM Peer Exchanges**
- **Pavement ETG**
- **NHI Training – 3 classes**
 - **New PMS Class**



Transportation System Preservation

- **Emphasis on integrated data collection and management**
- **Applications and “mix of fixes”**
- **Validating the impact on system preservation**
- **Performance measurement and feedback**
- **Research and development**



Transportation System Preservation

- **Focus on construction quality and material quality**
- **Improved specifications**
- **Expand construction workforce**
- **Advance Accelerated Construction Technology**
- **FPP / NCPP**
- **NHI Training – 4 classes**



FHWA Near-term Initiatives

- **AASHTO Data Integration Manual**
- **National Showcase on Data Collection and Analysis**
- **Pavement Preservation Program Appraisals**
- **Preservation Training and Qualification Program**
- **TSP2 and Regional Partnerships**
- **TSP Research Roadmap**



Moving Forward

- **FHWA has a role in leadership and technical support**
- **Collaboration and partnership are crucial**
- **FHWA will continue to support the States in meeting their needs**



Questions?

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