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

Butch Wlaschin
Director, Office of Asset 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

![Graph showing Interstate Highway System Development and Federal Gas Tax Rate](image-url)
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

- 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?

Butch Wlaschin
Office of Asset Management
Butch.wlaschin@dot.gov