



ASSET MANAGEMENT

IHEEP CONFERENCE
NEW ORLEANS, LA
SEPTEMBER 29, 2014

BUTCH WLASCHIN, P.E.

INFRASTRUCTURE CONDITION

- *Maintain the highway infrastructure asset system in a state of good repair.*

NATIONAL CHALLENGE

- **Asset Management**
 - Focus on Pavement and Bridges
 - Focus on whole-life cost
 - Focus on risk management
 - Focus on financial plan
 - Focus on preservation and investment strategies
 - Focus on Pavement and Bridge management
- Focus on using data to drive decisions at Corporate level

WHAT IS ASSET MANAGEMENT?

- Asset Management is a distinct way of doing business.
- We are all managing our assets, but are we doing Asset Management? Documentation?
- Asset Management is more than a pavement management system, bridge management system, maintenance management system, etc.
- Asset management is about managing your network over the whole life; includes, managing your pavements, bridges, and other physical assets (culverts, tunnels, guardrail, signs, ITS assets, markings, rest areas, etc.).

MAP-21 REQUIREMENTS

- Each State is required to develop a risk-based asset management plan for the National Highway System (NHS) to improve or preserve the condition of the assets and the performance of the system. (23 U.S.C. 119(e)(1), MAP-21 § 1106)

WHAT ARE THE SCOPE AND CONTENT OF A RISK-BASED ASSET MANAGEMENT PLAN?

- States must address pavements and bridges but are encouraged to include all infrastructure assets within the highway right-of-way in their risk-based asset management plan. (Also can include roads other than on the NHS.)
- Includes strategies that lead to a program of projects that would make progress toward achievement of the State targets for asset condition and performance of the NHS

HIGHWAY ASSET MANAGEMENT PLAN

- Plan Contents

- Pavement and bridge inventory and conditions on the NHS,
- Objectives and measures,
- Performance gap identification,
- Lifecycle cost and risk management analysis,
- A financial plan, and
- Investment strategies

- (preservation)

RISK EXAMPLES

- Funding
- Reputation
- Data and data quality
- Workforce
- Political changes
- Global conditions
- Leadership changes
- Storm severity

ASSET MANAGEMENT – THIS IS HOW WE DO BUSINESS:

- Preserve our assets and minimize their whole life costs.
- Operate in a financially sustainable manner.
- Provides a framework to improve performance on a long-term basis

WHAT SHOULD BE TAKING PLACE?

- Knowledge of the *Asset Management* requirements in MAP-21
- Listing of pavement and bridge assets and their condition
- Management systems – more than an inventory.
- Data quality and Data Management key

WHAT SHOULD BE TAKING PLACE?

- Integrated data systems
- Shared / common data base
- Multiple users of integrated data base

DATA MANAGEMENT

- States have plenty of data but are not using it to make decisions at the corporate level
- Often data is used at the District or Maintenance level after the funds have been split

WHAT CAN YOU DO?

- Data Quality
- Standards Development
- Certification of equipment, operators, analysis
- LRS to tie system together
- A network tool and analysis

DATA MANAGEMENT – PERFORMANCE MEASURES

On an annual basis, States will be held accountable for system performance

Major key to performance is quality, timely data

Missing or poor quality data may be held against the agency

DATA MANAGEMENT –PERFORMANCE MEASURES

Need to work with Pavement and Bridge Specialists to identify key performance measures to ensure success

Need to identify performance measures and indicators for various preservation treatments

Need to assist senior managers in using data to help drive decisions

FUTURE ACTIVITIES

- Other assets: Culverts, highmast lights, overhead signs, ITS, sidewalks, street signs, ADA ramps
- Cross-asset analysis
- Adaptation of critical assets to climate change

FUTURE ACTIVITIES

- Outreach to MPOs and local transportation agencies
- Keep it simple
- Pavement and Bridges
- Keep it simple – maintain assets in a state of good repair

FINAL THOUGHTS

- Have performance measures that guide investment decisions
- Adopt a ‘preservation first’ strategy for their investment priorities
- Moved away from a “worst first” investment strategy,
- adopted investment principles that are based on life cycle/whole life costing
- Make the data relevant
- Strong leadership support – “A Champion”



QUESTIONS

BUTCH WLASCHIN, P.E.

BUTCH.WLASCHIN@GMAIL.COM