

# FHWA and MAP-21 A Business Approach

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Butch Wlaschin, P.E. Director, Office of Asset Management, Pavements & Construction

# Overview

- Fall 2012 Vancouver, WA
  - NWPMA
- MAP-21
  - Then and now
- Asset Management
  - Moving ahead with a Business Approach

# NWPMA -2012

- Thank you for the invitation then and now
  - PMA model for NACE and APWA
  - Interest in TAM
  - Lessons learned
    - Collaborative best practices
    - Interest in preserving existing pavements, maintaining value, getting best ROI

# FHWA

- Current status
  - 2014 funding
  - Authorization expires 9/30/2014
  - One of many issues in Congress
  - Funding remains the major issue
  - Preservation of existing assets
  - Safety of Bridges
  - Highway safety
  - Freight movement

- 2-year Bill (5 years with 2 years of funding)
- Current Funding Levels Extended
- Notable Provisions
  - NHPP STP
  - New rules:
    - Planning
    - System Performance
    - HSIP
    - Asset Management
    - Tunnels

- Changes in the FLHP
  - County related activities
  - Expanded IRR Program
- Innovation and deployment
  - Pavements Program

- Buy America
- Emergency Relief
- Value Engineering

Expanded National Road System
NHS – Plus (220k)



# MAP-21 Current Issues

- Development of Asset Management Process and Plan
- Pavement condition assessment (IHS and NHS)
- Bridge Condition assessment (IHS and NHS)
- Performance of IHS
- Minimum Condition for IHS
- Reestablish criteria for PMS and BMS

- Collaborative effort with AASHTO
- Outreach to Partners AGC, ARTBA, NACE etc.

• Rule making – 18 months

- Asset Management
- Establishing a process:
- Strategic Vision and Goals
- Inventory and condition
- Gap Analysis
- Life-cycle coast and Risk Management
- Financial Plan
- Investment Strategy



 New minimum requirements for PMS and BMS

Needs to include preservation

Focuses on long term

- Asset Management
- Short term performance measures
- Looks at life cycle costs and risk
  - Keys to long term performance
- Stay away from worst-first
- Are you at the table discussing Asset Management with your senior management?

- Risk analysis
  - Agency Risks
    - Lack of funding
    - Loss of historical information
    - Climate
  - Program Risks
    - Level of service
  - Project Risks

- Investment Scenarios
  - Stove pipe
  - Cross asset
  - Cross mode
  - Mix of fixes
    - Touch as many miles as you can with the dollars you have
    - Right treatment, right time, right place, right people

- Draft NPRM for Asset Management Process in legal review
  - Fall planned publish date
  - 60-90 day review and comment period
  - Final Rule mid-to-late summer 2014

Staggered implementation

- Hosting training session on-site and via the WEB.
- Monthly bookclub discussions by leading states
- Pilot projects in NY, MN and LA
  - NV, OR and AK
- Financial Plan workshops
- Peer Exchanges
- Still under discussion Certification and Approval

 Beginning of 2<sup>nd</sup> FY Processes need to be Certified or Sanctions imposed

 Needs to lead to a "program of projects" that will be used in conjunction with other program "Plans" to formulate the STIP and TIP

- Significant state participation in the learning process
- Nearly all states engaged and in various stages of development
- Documenting existing processes, bringing them out from the maintenance shed to the front office.
  - When was the last time your assets were discussed at a public meeting?

# MAP-21 (Part 2)

- Infrastructure Performance Measures
- Pavement and Bridge
- Bridge pretty straight forward
- But pavements
  - No common measures
  - No common language
  - No common definitions
  - AC PCC Composites
  - Surface treatments preservation maintenance

- Infrastructure Performance Measures
- Still linked to IRI, but other aspects
- Matrix IRI, Rutting, cracking, faulting
- Group road segments as Good Fair Poor
- Establish minimum condition for the Interstate

- Potentially multiple measures for pavements
  - HMA
  - PCC
  - Composites
  - Each would require a target
  - Local roads on NHS

- Infrastructure Performance Measures
- Outreach and collaboration with AASHTO SCOPM and JTCP
- No common standards, procedures, or analysis tools
- Lane miles vs centerline miles
  - 4 lane divided vs 12-14 lane no median
- Where does VMT fit?
- Composites 6 lane divided 6 composites?
- HMA vs PCC

- Infrastructure Performance Measures
- Calibration centers FWD Skid
- Common analysis tools
- Common standards
- Drive / operator certification

- Should FHWA do the annual measures?
- Role of HPMS reporting system

Infrastructure Performance Measures

- DRAFT NPRM nearly complete
- Tentative publishing date late 2013
- 90 days for review and comment

• Final Rule late summer 2014

- Key note:
- Overall coordination will be discussed in Safety Performance Measures rule coming out early this fall.
- Links new planning rule with asset management rule and pavement performance rule.

- Common approach in private sector
  - Toll Authorities
  - Concessionaires (HOV / HOT)
- More advanced states:
  - 7-8 assets
  - Multi-modal (Highways, Airports, Rail, Transit)

- Common Business model
  - United
  - BNSF
  - US NAVY

- Changing culture
  - Building the system (Expansion)
  - Service Provider (Preservation)

- Common approach
  - Where would you / should you spend that next dollar?
  - Data driven risk-based decision

 Do you wait until the car stops running to change the oil?

#### **Thank You**

- Contacts:
- Butch Wlaschin <u>butch.wlaschin@dot.gov</u>
- Steve Gaj <u>stephen.gaj@dot.gov</u>
- Nastaran Saadatmand <u>nastaran.saadatmand@dot.gov</u>