

FHWA

Initiatives in Sustainability Mid-Western States Regional In-Place Recycling Conference Schaumburg, IL

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From Butch's Desk

• MAP-21

Current Issues

Initiatives



- 2-year Bill
- Current Funding Levels Extended
- Notable Provisions
 - Consolidated Funding Categories
 - NHPP
 - STP
 - CMAQ
 - 9 new Rules



- Asset Management Plan and process Requirement
- Performance Management
 - Safety
 - Infrastructure Pavement and Bridge
 - Mobility Environment
- Performance-Based Planning
- Goals Targets



- Preservation a key component of MAP 21
- Needs to be addressed in Asset Management Plan and Process
- Needs to key part of the mix-of-fixes
- Needs to be a key part of the performance-based planning effort
- New statutory definition



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



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

Rule making – 18 months



Asset Management

 New minimum requirements for PMS and BMS

Needs to include preservation

- Need your help ROI on preservation fixes
 - Financial Plan and Investment Strategies



- Asset Management
- Focuses on Long Term
- With short term performance measures
- Looks at life cycle costs and risk
 - Keys to long term performance
- Stay away from worst-first
- Is Maintenance at the head-table discussing Asset Management?



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



Infrastructure Performance Measures

Pavement and Bridge

- New definitions / concepts
- Deteriorated condition
- Avoiding structurally deficient



- Infrastructure Performance Measures
- Pavement
- Still linked to IRI, but other aspects
- Matrix IRI, Rutting, cracking, faulting
- Again need your help. No statistical performance data on preservation treatments
- Group road segments as Good Fair Poor
- Establish minimum condition for the Interstate



- Infrastructure Performance Measures
- Outreach and collaboration with AASHTO SCOPM and JTCP
- No common standards, procedures, or analysis tools
- Unanswered questions:
 - 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



- Questions:
 - 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



Current Issues

- EDC2
 - Emerging technologies Innovations
 - SIBC IC 3D-Modeling
 - Recycling just missed out last time
- SHRP2
 - Preservation (R26)
 - Rapid Renewal for Bridges (R04)
 - Next PSPC concrete Composite Pavements – Extending Life of Existing Pavements - NDT



- Relatively new concept
 - Competing Priorities / Concepts
 - Carbon foot prints green house gases
 - Recycling renewal
- Sound Business Practice
 - Reuse / recycle existing materials within the ROW
 - Reduce haul requirements
 - Reduce requirements for new materials



- Illinois Toll Authority Setting the Way Forward
 - 100% asphalt
 - Black rock for concrete
 - Concrete
 - Steel
 - PC concrete repairs
 - Two lift paving
 - In-place recycling
 - Going Green



- FHWA Sustainability TWG
 - FHWA
 - State DOTs
 - Industry Reps
 - Academia

- Guidelines / concept papers
- Growing interest Good Business Case



- New Associate Administrator
 - Butch Waidelich
 - Recycling / preservation background
 - Wants to make recycling flagship of EDC3
 - Speaker at ARRA/AEMA/ISSA National Meeting in Dallas
 - Future speaker at regional partnership meetings



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Thank You

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