



Midwest Bridge Preservation Partnership

Minutes – Monthly Teleconference

Tuesday December 5, 2023

Business Meeting: 12:30pm to 1:00pm Central

Technical Session: 1:00pm to 2:00pm Central

12:30 pm – Business Meeting

- a.) Welcome new Board Members!
 - i. John Culbertson – Vice Chair
 - ii. Philip Meinel – Secretary/Treasurer
 - iii. Jason DeRuyver – Industry Director (Kinda new...)
 - 1. Jacob Creisher attending on behalf of MDOT
- b.) Future Partnership Meetings 2025.
 - i. Ohio will volunteer to host 2025 annual meeting...
 - 1. Estimated number of attendees? 200-250 attendees, 60+ booths, break area of 10k-12k SF
 - 2. Next Steps...
 - a. NCPP needs some venue options that might work
 - 3. Hosted in the fall, need to avoid conflict with NEBPP which might be hosted in September in MA.
 - 4. Will there be an agenda planning committee? NCPP will send recurring meeting invite for the agenda planning meetings. Sarah proposed every other month frequency to start about a year before the event. Prior meeting time was 3rd Wednesday at 1pm CT. Brad will solicit for committee interest in January. Potentially more OH staff to help coordinate.
 - 5. Hopeful for good local participation from OH.
 - ii. Other future locations... (Illinois, Nebraska, Oklahoma...)
 - iii. Might be joint conference in 2026...discuss at 2024 national meeting
- c.) Looking for any topics for future Monthly Teleconferences. Any Suggestions?
 - i. Sarah proposed presentation on domestic scan 20-68D on Strategic Workforce Management and IA Bridge Deck Preservation Tool TPF-5(474) (from AASHTO MaC)
- d.) Upcoming Bridge Preservation Meetings and Conferences
 - i. TRB Annual Meeting, Washington, DC, January 7-11, 2024
 - 1. Committee on Structures Maintenance (AKT40), Jan. 8, 2024
 - 2. Committee on Bridges & Structures Management (AKT50), Jan. 8, 2024
 - 3. Committee on Bridge Preservation (AKT60), Jan. 9, 2024

- 4. Basak Bektas, Tony Serdenes, and Philip Meinel are planning to attend
 - 5. Notify Brad if you are willing to present info from TRB at an upcoming MWBPP meeting
- ii. International Bridge Conference, San Antonio, TX, June 3-5, 2024
 - 1. Karl Hansen has interest in additional information
- iii. AASHTO Committee on Bridges and Structures, Indianapolis, IN, June 14-18, 2024
 - 1. Chair has attended in the past
- iv. AASHTO Committee on Maintenance, Alabama, August 11-15, 2024
 - 1. Typically attended by Chair and/or past Chair to present on MWBPP meetings and annual conference
- v. National Bridge Preservation Conference, Salt Lake City, UT, September 9-13, 2024 www.nbc2024.org
- e.) National Bridge Preservation Conference (...Moved to Technical Session portion)
- f.) Next Monthly meeting scheduled for January 2nd 2024. (Hold that date?)
 - i. Cancel January meeting. Next meeting in February.

1:00 pm – Technical Session

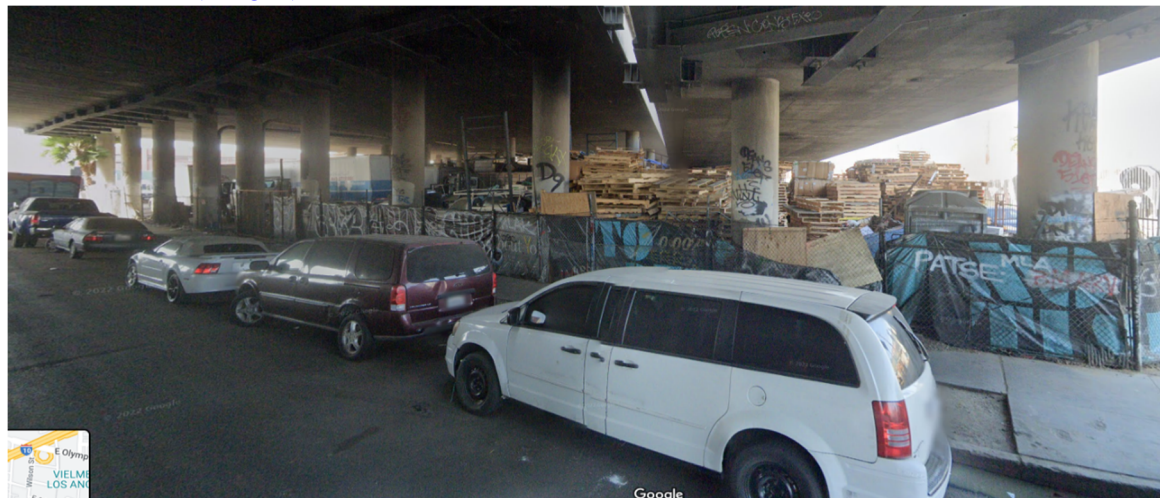
- 2. Roll Call (As per the web-ex list, please put your name in the chat if you called in only)
 - a. 53 attendees at 1:02pm
- 3. Approval of Minutes
 - a. October 19th, 2023 (Annual Meeting)
 - b. No proposed changes. Sarah Wilson first, Sarah Sondag second, approved.
- 4. 2023 MWBPP Annual Meeting – Deadwood, South Dakota – Thank you!!
 - a. The PowerPoint presentations from the 2023 MWBPP meeting are now available for download/viewing on the meeting page:
<https://tsp2bridge.pavementpreservation.org/midwest-mwbpp/2023-mwbpp-deadwood-sd/>
 - b. Notes from the peer exchanges will be distributed shortly.
- 5. National Bridge Preservation Conference (...Moved to Technical Session portion)
 - a. Theme is “Innovation for Infrastructure Resiliency”
 - b. The 2024 National Bridge Preservation Conference (NBPC) is scheduled for September 9th – 13th in Salt Lake City, Utah! We are in the early stages of developing the agenda and this is your chance to be an integral part of the program. www.nbc2024.org
 - i. Abstracts must be submitted prior to March 1, 2024, to be considered.
(<https://www.surveymonkey.com/r/WBCMZVF>)
 - 1. Brad and Nancy encouraged submittal of abstracts.
 - c. SNTD may be performing a workshop on the Monday before the conference. Offering a number of free registrations. The additional per diem could possibly be

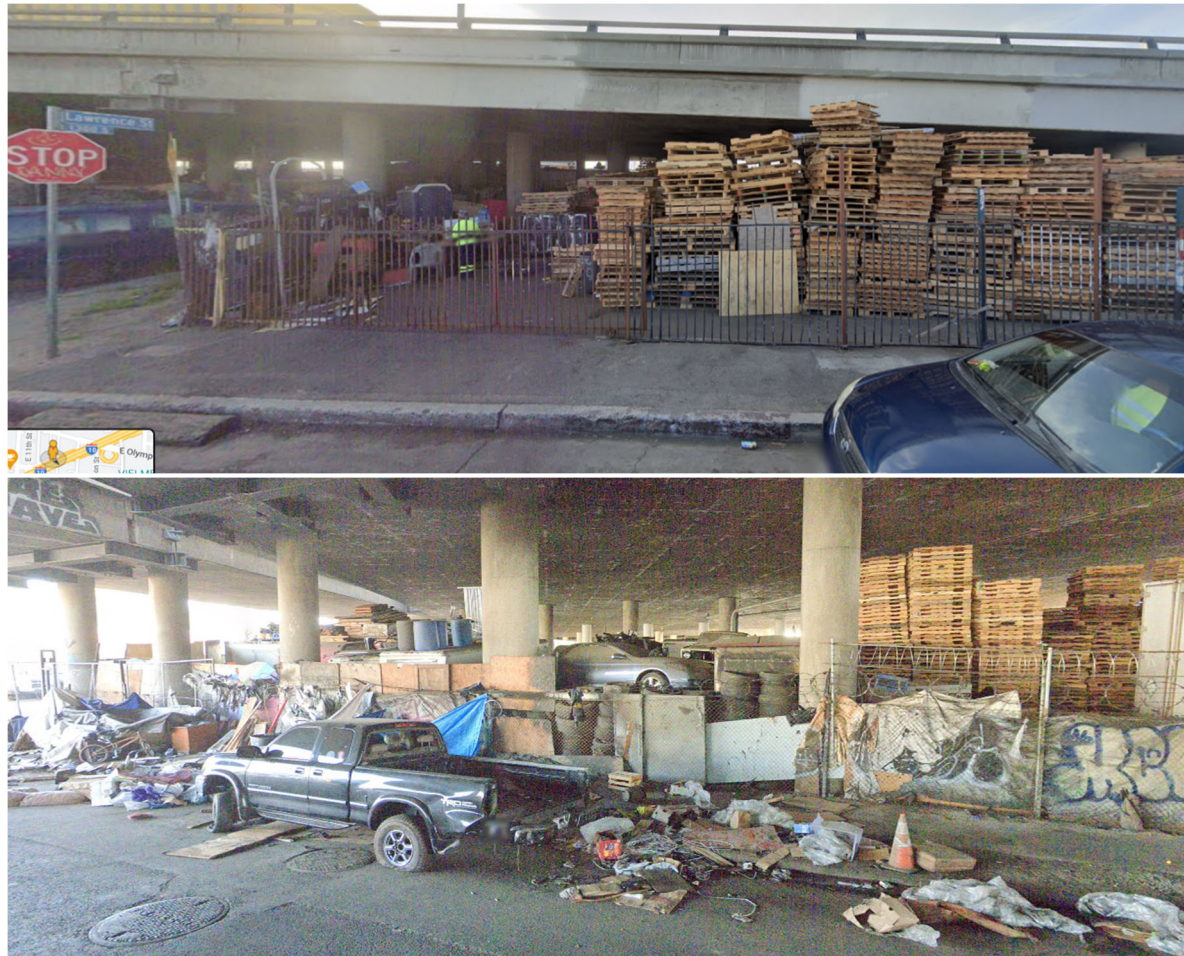
funded through the partnership. Send comments/feedback to Nancy to continue discussions with SNTD.

- d. Consider sending 3 attendees to the national meeting
- e. Each partnership should submit the “best” presentation from each regional annual meeting to be presented at the national meeting.

6. General Interest Items

- a. SNBI Training – Zoom Recordings
 - i. Letting you know the recorded Zoom training sessions on the FHWA Specifications for the National Bridge Inventory (SNBI) from June 28th and June 29th have been posted to the FHWA webpage: <https://www.fhwa.dot.gov/bridge/snbi.cfm>.
- b. Bridge Preservation News – November 2023
 - i. Bridge Preservation utilizing Cathodic Protection
https://tsp2bridge.pavementpreservation.org/files/2023/11/Bridge-Preservation-News_November-2023.pdf
- c. FHWA report on “Ultra-High-Performance Concrete (UHPC) Link Slab Design Example”
 - i. The report provides design calculations for designing link slab on an existing four steel simple spans with composite reinforced concrete bridge deck. It also includes the redesign of the bearings.
 - ii. https://www.researchgate.net/publication/375692834_UHPC_Link_Slab_Design_Example
- d. FHWA Memorandum: I-10 Guidance Memo 11/15/2023
 - i. Documentation and Treatment of Materials Stored Under a Highway Bridge.
 - ii. [Documentation and Treatment of Materials Stored Under a Highway Bridge - Bridge Inspection - Safety Inspection - Bridges & Structures - Federal Highway Administration \(dot.gov\)](#)





7. Technical Session – Sarah Wilson, Illinois Dept. of Transportation.
 - a. Presenting highlights of the 2023 AASHTO Committee on Maintenance Meeting.
 - b. Slides included below.
 - i. The next Bridge Technical Working Group (TWG) meeting will be held on December 13 at 1 PM Central. The agenda will include a roundtable discussion on traffic control challenges and best practices and a presentation from Graham Bettis on Texas' maintenance performance measures. Please contact Sarah Sondag (sarah.sondag@state.mn.us) if you are interested in participating.
8. Other General Comments?
 - a. Nancy highlighted selection of “best” presentation from MWBPP annual meeting to be presented at the 2024 National meeting. Brad to follow up.

MWBPP Monthly Meeting Attendees Summary

GoToMeeting

Meeting Date

December 5, 2023 12:18 PM CST

Meeting Duration

107 minutes

**Number of
Attendees**

79

Meeting ID

762-776-077

Details

Name

Adam Post
Akram Jawdhari
Andy Carrigan
Anthony Marino
Arisa Prapaisilp
Basak Bektas
Ben Jacobus
Blake Liberati
Bobby Scarpito
Bradley Noll
Brett Commander
Brian
Catherine Collins
Christopher Piekos
Dana Larsen
David Coley
David Juntunen
David Miller
Dick Dunne
Dora Alexander
Drew Garceau
Drew Storey
Dustin
Ethan Epperson
Farokh Mehr
Gary Lovelace
Greg Heilman
Gregg Freeman
Hooman
Jacob Creisher
Jared Backs
Jason DeRuyver
Jerry Goodman
Joe Podobinski
Joe Stanis
Joe Whelan
John Culbertson
Josh Olson
Joshua Johnson
Julie
Karl Hansen
Katrina Davidson
Kay Jimison

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Yanling Leng	Yanling.Leng@imegcorp.com

Chat Log C:\Users\Nancy Huether\OneDrive - Michigan State University\Documents\ChatLog MWBPP Monthly Meeting 2023_12_05 14_05.rtf

David Miller (to Everyone): 12:42 PM: planning was previously : 3rd Wednesday of the Month 2 PM ET, 1 PM CT

David Miller (to Everyone): 12:43 PM: Usually a smaller group

Tony Serdenes (to Everyone): 12:45 PM: My apologies, I will have to drop off at 1:55. I have another meeting scheduled at 2:00. Thanks, and have a great holiday season!

David Miller (to Everyone): 12:53 PM: Just noticing that NBPC date is off. It is on 9/9 - 9/13

Nancy Huether (to Everyone): 12:53 PM: yep

David Miller (to Everyone): 12:55 PM: <https://www.nbpc2024.org/>

David Miller (to Everyone): 12:55 PM: that's the link to the save the date flyer

Julie (Private): 1:03 PM: Julie Spatholt

Ben Jacobus (to Organizer(s) Only): 1:04 PM: Ben Jacobus D.S. Brown

Dick Dunne (to Everyone): 1:08 PM: Brad and all - I think the National Meeting wants us to send the "best" presentation from Deadwood. Did we agree on the presentation? - Dick Dunne

David Miller (to Everyone): 1:11 PM: That is correct Dick.

Nancy Huether (to Everyone): 1:15 PM: Thank you Dick for that reminder!

Sarah Sondag, MnDOT (to Everyone): 1:30 PM: These are actually Minnesota's performance measures.

Sarah Sondag, MnDOT (to Everyone): 1:46 PM: For your information, the next Bridge Technical Working Group (TWG) meeting will be held on December 13 at 1 PM Central. The agenda will include a roundtable discussion on traffic control challenges and best practices and a presentation from Graham Bettis on Texas' maintenance performance measures. Please contact Sarah Sondag (sarah.sondag@state.mn.us) if you are interested in participating.

Farokh Mehr (to Everyone): 1:49 PM: Any interest on Glass Fiber Rebars?

Farokh Mehr (to Everyone): 1:49 PM: www.mstbar.com

Farokh Mehr (to Everyone): 1:53 PM: Wish you all happy Holiday season

AASHTO Committee on Maintenance

Highlights of 2023 Meeting
Sarah Wilson – Chair MWBPP

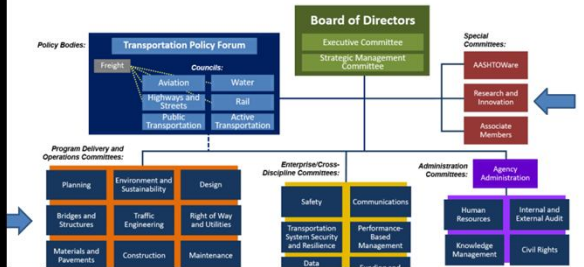
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AASHTO OVERVIEW

- AASHTO – American Association of State Highway and Transportation Officials
- Nonprofit organization representing highway and transportation departments in the 50 states, the District of Columbia, and Puerto Rico
- AASHTO's policy and standards development are the product of volunteer volunteer state department personnel who work through the AASHTO Committee structure.

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AASHTO COMMITTEE STRUCTURE



12/5/2023

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PROGRAM DELIVERY & OPERATIONS



12/5/2023

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AASHTO Committee on **MAINTENANCE** 2023 Annual Meeting

2023 Meeting
Portland, Maine

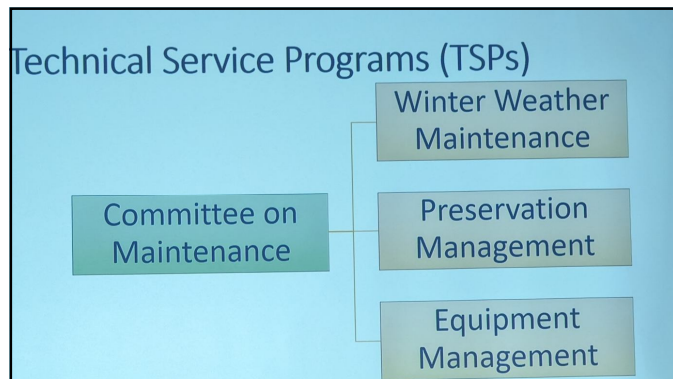
MAIN		3	
BRIDGE		10	
EQUIPMENT		11	
MAINTENANCE OPERATIONS		12	
PAVEMENT		13	
ROADWAY/ROADSIDE		14	

5

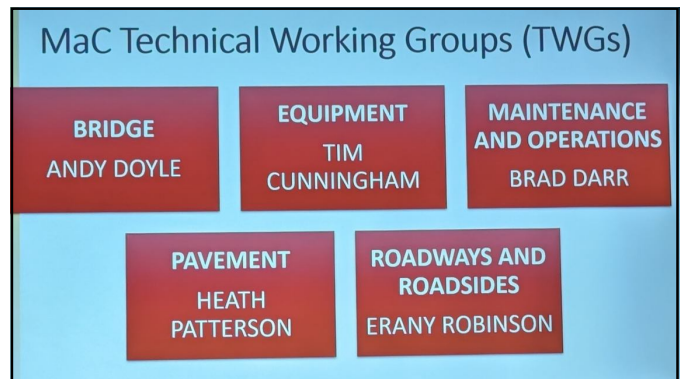
MaC Structure and Stakeholders



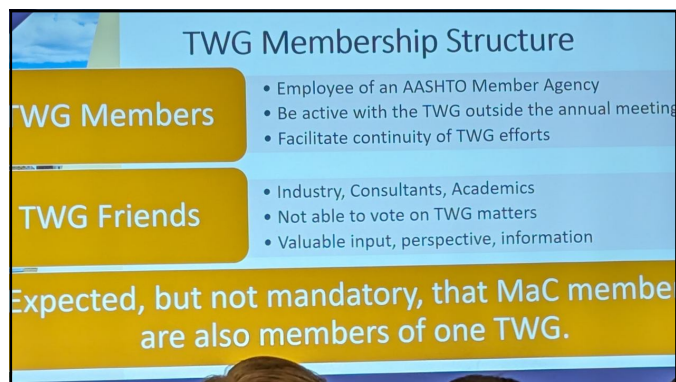
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- Bridge Technical Working Group
- Bridge TWG Goals

Bridge TWG Goals for Moving from Idea to Implementation

- Research is important but goal is to start finding more ways to move into implementation.
- Bridge preservation community is a very tight knit group. Important that the various groups (including the MaC Bridge TWG) collaborate.
- Everyone needs an invite to the party! If we are going to be successful we need involvement from Owners, Engineers, Consultants, Academia, Suppliers, and Contractors.
- Identify common hurdles (e.g. traffic control) and work together on solutions. Maybe someone else has already solved it!
- Important that we continue the push towards maintenance and preservation of all bridge assets. Ditch the worst-first approach.

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- Bridge Technical Working Group
- Bridge TWG Goals

Many Opportunities for Regional and National Collaboration

- Great collaboration with other bridge preservation groups:
 - AASHTO TSP2 National Bridge Preservation Partnership
 - FHWA Bridge Preservation Expert Task Group
 - AASHTO T-9 Committee on Bridge Preservation
 - AASHTO Committee on Maintenance Bridge Technical Working Group
- Numerous Regional and National Working Groups
- Innovative Technology Demonstrations Working Group

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- Bridge Technical Working Group
- Discussion of SNBI Implementation Plans from Various States

FHWA SNBI Implementation Plan

Target Date	Action
May 2022	SNBI and SNBI published
July 2022	FHWA publishes Data Crosswalk
October 2022	FHWA publishes Data Submittal Schema and Data Submittal Validation Logic (Final Version)
April 2023	Transition Tool is made available online
October 2023	FHWA makes SNBI NextGen available online for data validation only
March 15, 2025	Last SNBI data submitted in accordance with 1993 Coding Guide
January 1, 2026	Last date to begin verification of transitional data and collection of SNBI-based data for inspected bridges - Agencies may elect to begin SNBI-based data collection and verification earlier to meet the March 15, 2026 deadline for submittal of a complete SNBI-based NBI dataset
January 1, 2026	FHWA makes SNBI NextGen available for Data Submittals
March 15, 2026	First SNBI-based NBI data submittal - Transitional Hybrid Dataset - At a minimum, all bridges submitted with transitional data except for specified fields required to manage FHWA programs, which shall be collected or verified in accordance with the SNBI - Continue verification of transitional data and collection of SNBI-based data
June 2026	Transition Tool maturity
March 15, 2027	Second SNBI-based NBI data submittal - Transitional Hybrid Dataset - Continue verification of transitional data and collection of SNBI-based data
March 15, 2028	Third SNBI-based NBI data submittal - 100% perpetual and verified - No temporary codes permitted - First complete SNBI-based dataset with collected and verified SNBI-based data for all bridges

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- Bridge Technical Working Group
- Midwest's own – MinnDOT's Bridge Maintenance Academy

Bridge Maintenance Academy II

Concrete Repair



Steel Repair





Key Activities:

- Repair Techniques



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- Bridge Technical Working Group
- Midwest's own – Missouri's Performance Measures

Maintenance Performance Measures

- Reactive Maintenance

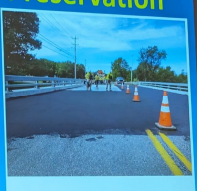
Category	Measure	Target
High Priority	High Priority Reactive Maintenance Completed On Time (within one year)	99%
Medium Priority	Medium Priority Reactive Maintenance – Reduction of Backlog of Work	TBD
Low Priority	Low Priority Reactive Maintenance – Reduction of Backlog of Work	TBD

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- Bridge Technical Working Group
- Maine DOT

MaineDOT Preservation

- Bridge Preservation Guide



MaineDOT
Bridge Preservation Guide

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- Bridge Technical Working Group
- Maine DOT

Recruitment and Retention

- Hard to Find and Keep Good People
- Unable to Compete With Pay of Consultants and Contractors
- Stability is Not Important for Younger Generation

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- Bridge Technical Working Group
- Maine DOT

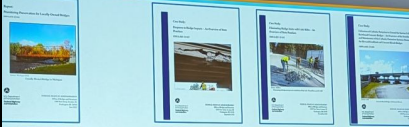
Forever Bridges

- Larger Bridges We Cannot Afford to Replace
- Extend the Service Life
- Strategy = Over Preserve

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- Bridge Technical Working Group
- FHWA Bridge Preservation Reference Documents

FHWA Case Studies (non-binding reference documents)



Support:
Prioritizing Preservation for Locally Owned Bridges

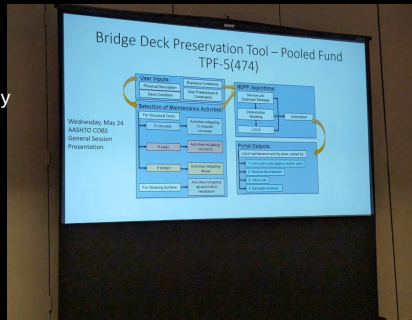
Case Studies:

- Response to Bridge Impacts
- Eliminating Bridge Joints with Link Slabs
- Utilization of Cathodic Protection to Extend Service Life of Bridges

<https://www.fhwa.dot.gov/bridges/preservation/>

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- Bridge Technical Working Group
- Pooled Fund Study out of Iowa



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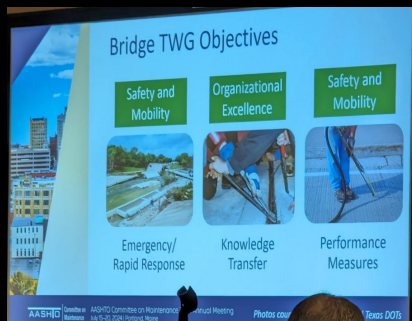
- Bridge Technical Working Group
- Future NCHRP Synthesis Topics

2023 NCHRP 20-05 Synthesis Selected

- State DOT Use and Policies on Implementation of Corrosion Resistant Reinforcing Bars
- Construction Strategies and Techniques for Bridge Replacements in Complex Scenarios

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- Bridge Technical Working Group
- Objectives



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- Bridge Technical Working Group
- Goals



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AASHTO Committee on **MAINTENANCE** 2023 Annual Meeting

**Upcoming
Trainings**

23

New Courses - Finalize Development Priority List FY2023:

- Application of Drones in Bridge Inspection
- Compaction Basics for Roller Operators, Paving Operations and responsibilities for Operators, Tack Coat Best Practices and Application for Operators
- Fundamentals of GIS/Geomatics Applications in Civil Engineering
- Painting and Coating on Structures

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New Courses – FY23

- Transportation Communication Best Practices
- Public Relation Skills
- Basics of Constructability
- Right of Way Engineering Essentials
- Snow and Ice for Pedestrian and Bicycle Facilities
- Rigid Deck Overlays
- Cable Barrier Maintenance and Repair

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New Course Developments – FY24

- AASHTO T 27- Sieve Analysis of Fine and Coarse Aggregates
- Earthwork Calculations for Highway Construction
- Maintaining Accessible Connections During Construction
- Managing by the Schedule
- Passing Zone Markings and Layout
- Safety for the Aggregate Inspector
- T 85 Specific Gravity - Absorption of Aggregates
- Transportation and Trail Network Connectivity Planning and Design for Sustainability and Resiliency

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AASHTO Committee on **MAINTENANCE** 2023 Annual Meeting

Joint Committee on Work Zones

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Joint Subcommittee on Work Zones

Purpose:

- Serve as a "switchboard" for work zone information for AASHTO

Priorities:

- Sharing Best Practices
- Collaboration with Partners
- Innovation
- Safety Data
- Research
- Training

Parent Committees and Councils:

- Safety
- Construction
- Design
- Human Resources
- Maintenance
- Traffic Engineering
- Transportation System Operations
- Highways and Streets
- Active Transportation
- Public Transportation

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Joint Subcommittee on Work Zones

- Obtaining, compiling, analyzing, reporting crash data and using analysis for recommending future practices
- State WZDx activities
- Uniformity of smart work zones across state
- Policies or procedures for the safe setup/breakdown of work zones
- Consistent use of traffic control devices across state
- **Traffic Safety**
 - Distracted driving
 - Speeding
 - Rear end crashes, end of queue crashes
 - NCHRP 350/MASH devices
 - Intrusions
 - Enforcement
- **Personnel**
 - Flagger training/certification
 - Training for work zone set up and working in work zone
 - General state/contractor knowledge, skills, and ability
 - Worker protection

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Joint Subcommittee on Work Zones

- Obtaining, compiling, analyzing, reporting crash data and using analysis for recommending future practices
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 - Worker protection

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Joint Subcommittee on Work Zones

- Design and Operations
 - Sufficient lane closure time windows
 - Wait time under flagger or temporary signal control
 - Queue detection/monitoring
 - Commercial motor vehicles
 - Accommodating vulnerable road users
 - Lighting
 - Identifying all active work zones
 - Design of construction entrances and exits along freeways
 - Slowing traffic in advanced warning/transition areas
 - Late/dynamic/zipper merges

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AASHTO Committee on
MAINTENANCE
2023 Annual Meeting

NCHRP 20-68D
Strategic Workforce Management

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NCHRP 20-68D
“US Domestic Scan Program”

Domestic Scan 19-02

“Leading Practices in Strategic Workforce Management by Transportation Agencies”

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NCHRP Panel’s General Guidance to the Scan Team

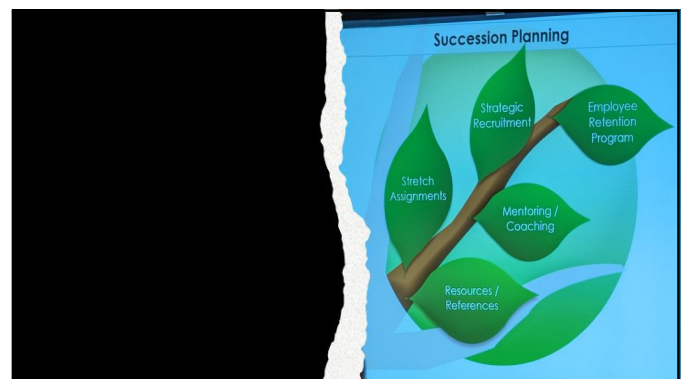
“This scan will examine innovative strategic workforce management strategies DOTs are implementing, particularly those activities that can be quickly adopted and implemented to recruit, develop, and retain the workforce they need today and for the future...”

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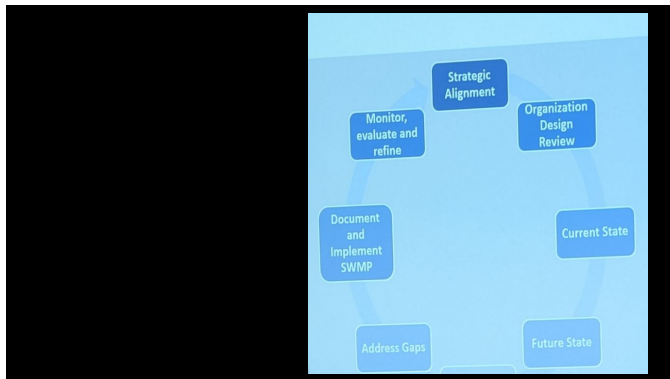
Relationship to NCHRP 18-02 – Leading Practices in Modifying Agency Organization and Management to Accommodate Changing Transportation System Technologies

Scan 18-02 preceded the subject workforce development scan by approximately one year. The scan had a Transportation Systems Management and Operation (TSMO) focus with significant discussion of TSMO workforce development, recruitment, and retention. At the conclusion of the scan, NCHRP recognized the value of input from workforce managers, particularly in the maintenance, operations, and engineering fields, to the subject scan, inviting several 18-02 scan team members to participate.

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Conclusions

Data Driven	Data-driven decision-making helps drive strategic plan including strategic workforce initiatives.
Peer exchanges	Peer exchanges supporting strategic workforce planning should be promoted.
Asset Management	Approach like asset management to help leadership understand - e.g. business value analysis, quantify cost of investment in hiring/talent management.
Effective leadership	Needs to be promoted through training and feedback.

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Recommendations

People Resource

- ✓ Recognize people are the most important resource.
- ✓ Planning and managing that resource is key to organization's success.
- ✓ Prioritize workforce management with the same sense of urgency as traditional enterprise asset management.

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