



Des Moines, Iowa July 19–23, 2015

AASHTO SCOM/TRB

Maintenance Conference

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Agenda

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Welcome



Dear Colleagues,

Welcome to Iowa and to the annual AASHTO Subcommittee on Maintenance Conference.

We are excited to host this conference in Des Moines which is the crossroads of transcontinental Interstate Highways 35 and 80. Iowa's multimodal transportation system is unique, in part because of our state's geographical location at the center of our nation. We also enjoy the distinction of being the only state in the country bordered by two navigable waterways—the Missouri and Mississippi rivers.

The conference planners have done an exceptional job of coordinating the agenda for this conference. It is an excellent collection of maintenance topics that are very relevant to the challenges and demands we face each day operating and maintaining our transportation system. We hope that you are able to take away key points from this conference that will help improve your state maintenance operations.

Thanks for investing the time to attend this conference. If any of our staff can be of assistance to you during your stay, please do not hesitate to ask. Enjoy the conference and have a great time here in Iowa.

Sincerely,

Paul Trombino III
Vice-President, AASHTO
Director, Iowa DOT

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MAIN AGENDA

Saturday, July 18, 2015

8:00 a.m.–5:00 p.m.

Pre-Conference Meeting/AASHTO SICOP Meeting Salon E
This meeting is for winter maintenance planning technical services program members.

1:00 p.m.–5:00 p.m.

Registration/Information Desk Open 3rd Floor

Sunday, July 19, 2015

10:00 a.m.–5:00 p.m.

Registration/Information Desk Open 3rd Floor

1:00 p.m.–5:00 p.m.

AASHTO SCOM Leadership Meeting Agenda Council Bluff/Davenport/Dubuque
This meeting is for SCOM Chairs, Vice Chairs, and FHWA Liaisons. All others by invitation only.

8:00 a.m.–6:00 p.m.

Vendor Set-up Des Moines Room

6:00 p.m.

Vendor/SCOM Icebreaker Social Des Moines Room

Monday, July 20, 2015

7:00 a.m.–5:00 p.m.

Registration and Information 3rd Floor

7:00 a.m.–9:00 a.m.

Breakfast Des Moines Room

7:15 a.m.–8:00 a.m.

SCOM Orientation Breakfast Cedar Rapids Room

Mark McConnell, Mississippi DOT, Presiding

Jennifer Brandenburg, North Carolina DOT, Presiding

- Description of SCOM and TWGs
- Introduction of TWG Chairs

8:00 a.m.–10:00 a.m.

Opening Session Salon ABCDE

Mark McConnell, Mississippi DOT, Presiding

Color Guard/National Anthem | Iowa DOT Motor Vehicle Enforcement Honor Guard;
Phillip Meraz & David Putz, Iowa DOT

Welcome | Paul Trombino III, Director, Iowa DOT



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SCOM Update | Mark McConnell, Mississippi DOT

FHWA Update | Bryan Cawley, FHWA

AASHTO Update | Jameelah Hayes, AASHTO

Operations Center of Excellence | Dennis Motiani, AASHTO

10:00 a.m.–10:30 a.m.

Break Des Moines Room

10:30 a.m.–Noon

Opening Session Continues

Mark McConnell, Mississippi DOT, presiding

Iowa DOT—Perspectives | Bob Younie, Iowa DOT

Technical Service Programs Discussion

SICOP Program | Rick Nelson, SICOP

TSP2 Program | Larry Galehouse, NCPP

EMTSP Program | Jim Smith, Pennsylvania DOT

TRB Update and Joint Conference Introduction | James Bryant, TRB

Noon–1:00 p.m.

Lunch Des Moines Room

1:00 p.m.–3:00 p.m.

Conference Paper Session Salon ABCDE

Jennifer Brandenburg, North Carolina DOT, Moderator

Communicating Maintenance Needs: A Performance-Based Budgeting Model | Rob Zillay, Dye Management

Transportation Quality Management in Performance-Based Maintenance Today | Matthew Conley, HDR/ICA

Incorporating Risk-Based Analysis into Transportation Asset Management Plans | Jason Bittner, Cambridge Systematics

Effective Communication of Budget Impacts to Highway Maintenance and Preservation Programs | Pasco Bakotich, Washington State DOT

North Carolina DOT's Efforts to Tie Maintenance Funding to Performance | Jennifer Brandenburg, North Carolina DOT

3:00 p.m.–3:30 p.m.

Break Des Moines Room

3:30 p.m.–5:00 p.m.

TECHNICAL WORKING GROUPS BREAKOUT SESSIONS

Bridge Davenport

Pavement Salon BC

Roadway/Roadsides Council Bluff

Equipment Salon FG

Highway Safety and Reliability Dubuque

5:00 p.m.

Adjourn Dinner on your own

Tuesday, July 21, 2015

7:00 a.m.–Noon

Registration and Information 3rd Floor

7:00 a.m.–8:00 a.m.

SCOM Leadership Breakfast Cedar Rapids

This meeting is open to all SCOM TWG Chairs, Vice Chairs, and FHWA Liaisons.

7:00 a.m.–9:00 a.m.

Breakfast Des Moines Room

8:00 a.m.–9:30 a.m.

CONCURRENT PAPER SESSIONS

Bridge TWG-Sponsored Session Salon D

Steven J. Cook, Michigan DOT, Moderator

Using Equity, Functionality, Importance, and Risk to Select Maintenance Interventions for Bridges | Adam Matteo;
Presented by Jeff Milton, Virginia DOT

Comparing Benefits of Bridge Maintenance and Preservation Focused Life-Cycle Strategies with the Rehabilitation
and Replacement-Based Strategies | Charles Pilson, Agile Assets

Bridge Maintenance and Preservation in the Context of Transportation Asset Management Planning | Jason Bittner,
Cambridge Systematics

Tools to Generate a More Transparent Decision for Bridges | Maria Miller, Iowa State University

Highway Safety and Reliability TWG-Sponsored Session Salon E

Jim Feda, South Carolina DOT; Moderator

Comparing Risk Factors for Crash Injury Severity of West Virginia and Montana Rural Freeways | Kirolos Haleem,
Agile Assets

Traffic Incident Management and the Role of Public Works/Transportation Agencies | Dave Bergner

Using Bluetooth Devices to Measure Level of Services | William Holik, University of Akron

End of Traffic Queue Protection Initiatives and Practices in Tennessee | Brad Freeze, Tennessee DOT

9:30 a.m.–10:00 a.m.

Break Des Moines Room

10:00 a.m.–Noon

TECHNICAL WORKING GROUPS BREAKOUT SESSIONS

Bridge Davenport

Pavement Salon BC

Roadway/Roadsides Council Bluff

Equipment Salon FG

Highway Safety and Reliability Dubuque

Noon–1:00 p.m.

Lunch Des Moines Room

1:00 p.m.–2:30 p.m.

CONCURRENT PAPER SESSIONS

Pavement TWG-Sponsored Session Salon D
Jon Wilcoxson, Kentucky TC, Moderator

Does Preservation Matter: The Role of Pavement Preservation in Pavement Life | *David Peshkin, Applied Pavement Technology, Inc.*

Pavement Preservation on High-Volume Roadways: A Review of SHRP2 R26 and Agency Implementation Practices from 2013–2015 | *David Peshkin, Applied Pavement Technology, Inc.*

Potholes: Prevent Before the Present | *Dave Bergner*

A Core Strategy for Addressing the Issues of Pavement Failure Related to Utility Excavations | *Dennis Jarnecke, GAS Technology*

Roadway/Roadsides TWG-Sponsored Session Salon E

Jerry Hatchel, Tennessee DOT, Moderator

NCDOT's Improvements in Operational Performance Reporting | *Lonnie Watkins, North Carolina DOT*

NCHRP Ancillary Asset Management | *J.P. O'Har, Parsons Brinckerhoff*

The Use of Tablet Technology for Roadside Feature Condition Reporting and Decision Making | *Shawn Blaesing-Thompson, Iowa DOT*

VDOT Optimized Work Planning Tools | *Eric Brooks, Pillar, Inc.*

2:30 p.m.–3:00 p.m.

Break Des Moines Room

3:00 p.m.–5:00 p.m.

AASHTO REGIONAL MEETINGS

NASTO Salon FG

Joe Baker, Rhode Island, presiding

SASHTO Davenport/Dubuque

Heath Patterson, Mississippi, presiding

MAASTO Salon BC

Steve Lund, Minnesota, presiding

WASHTO Salon D

Lonnie Hendrix, Arizona, presiding

5:00 p.m.

Adjourn

5:30 p.m.–9:00 p.m.

Iowa Speedway Evening

Buses will leave the Marriott promptly at 5:30 p.m. | Iowa Speedway—"The Fastest Short Track on the Planet"—is a state-of-the-art, 7/8-mile, asphalt-paved, tri-oval race track and motorsports facility designed by NASCAR Hall-of-Famer, Rusty Wallace. Join us for an evening of food and fun at the speedway. For a \$25 fee, individuals will have an opportunity to ride around the track in the official Iowa Speedway pace car. You will be required to sign a waiver in order to ride.

Wednesday, July 22, 2015

7:00 a.m.–5:00 p.m.

Registration and Information 3rd Floor

7:00 a.m.–9:00 a.m.

Breakfast Des Moines Room

8:00 a.m.–9:30 a.m.

CONCURRENT PAPER SESSIONS

Equipment TWG-Sponsored Session Salon D

Lisa Kunzman, Caltrans, Moderator

Benchmarking Fuel Use and Emission Rates for Heavy Duty Diesel Highway Maintenance Equipment | *Phil Lewis, Oklahoma State University*

The Cumulative Cost Model for Estimating Economic Life | *John Hildreth, UNC Charlotte*

Performance Measures Implementation for Efficient Fleet Maintenance and Operations | *Golam Sarwar, Agile Assets*

AVL/GPS/MDSS for Improving Winter Operations | *Tim Cruze, Michigan DOT*

Highway Safety and Reliability TWG-Sponsored Session Salon E

Brad Darr, North Dakota DOT, Moderator

Road Weather and Connected Vehicles | *Brenda Boyce, Booz Allen Hamilton*

Measuring the Impact of Training on the Use of Chlorides in Winter Maintenance | *Wilfrid Nixon, University of Iowa*

Estimation of Normal Condition Recovery Time with Traffic Flow Data for Efficient Winter Snow

Maintenance Operations | *Eil Kwon, University of Minnesota Duluth*

Winter Road Level of Service Determined Through Simulated Chemical Usage | *Dave Bergner*

9:30 a.m.–10:00 a.m.

Break Des Moines Room

10:00 a.m.–Noon

General Session Salon ABCDE

MAP-21 Emergency Relief Changes | *Jeff Lewis, FHWA*

Maintenance Peer Network | *Jennifer Brandenburg, North Carolina DOT*

Advances in Developing a Cross-Trained Workforce | *Greg Duncan, Applied Pavement Technologies*

Connected and Autonomous Vehicles | *Paul Steinman, Florida DOT*

Noon–1:00 p.m.

Lunch Des Moines Room

1:00 p.m.–5:00 p.m.

TECHNICAL WORKING GROUPS BREAKOUT SESSIONS

Bridge Davenport

Pavement Salon BC

Roadway/Roadsides Council Bluff

Equipment Salon FG

Highway Safety and Reliability Dubuque

5:00 p.m.

Adjourn

5:30 p.m.

Closing Banquet Prairie Meadows Conference Center

Buses will leave promptly at 5:30 p.m. | Our Closing banquet will be an evening filled with food and entertainment at the Prairie Meadows Conference Center. Following dinner the Last Laugh Comedy Theater will provide our evening entertainment.

Thursday, July 23, 2015

7:00 a.m.–Noon

Registration and Information 3rd Floor

7:00 a.m.–9:00 a.m.

Breakfast Des Moines Room

8:00 a.m.–11:00 a.m.

Subcommittee on Maintenance Business Meeting Salon ABCDE

Conference participants who are non-SCOM members are invited to attend the Business Meeting as observers.

Mark McConnell, Mississippi DOT, presiding

Jennifer Brandenburg, North Carolina DOT, presiding

Technical Working Group Reports

- Bridge
- Equipment
- Highway Safety and Reliability
- Pavement
- Roadway and Roadsides

Regional Meeting Reports

Resolutions

SCOM 2016–Clark County, Nevada

Anita Bush, NVDOT

11:00 p.m.

Adjourn



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EQUIPMENT

Chair: **Erle Potter, VDOT**
Vice Chair: **Tim Cunningham, KDOT** (Environmental and Research)
Vice Chair: **Ron Pruitt, ALDOT** (Performance Measures and Workforce Development)
FHWA Liaison: **Jim Stevenson, FHWA-OK**

MONDAY, JULY 20, 2015

3:30 p.m.–5:00 p.m.

Salon FG

Welcome and Introductions | *Tim Cunningham, Moderator*

Completed Activities for the Past Year | *Tim Cunningham and Ron Pruitt, Presenters*

- A. Equipment TWG
 - 1. NCHRP Project 13-04, *Guide for Optimal Replacement Cycles of Highway Operations Equipment*
 - 2. NCHRP Project 13-05, *Guide for Utilization Measurement and Management of Fleet Equipment*
- B. The Equipment Management Technical Services Program (EMTSP)
 - 1. Financial Update
 - 2. EMTSP Strategic Plan
 - 3. 2015–2017 EMTSP Work Plan
- C. Regional Partnership Conference highlights, successes, and challenges
 - The joint Northeast Equipment Management Partnership and the Midwest Equipment Management Partnership
 - Southeastern States Equipment Managers Conference
 - Overview of future Western States Highway Equipment Managers Association meeting in Anchorage, Alaska
- D. Overview of the 94th Annual TRB Meeting in Washington, D.C.

Research Updates

- A. Guidelines for the Development of Highway Operations Equipment Multi-Year Replacement Plans
 - Update status of SCOR vote
 - Update status of NCHRP actions, if necessary
 - Update status of AASHTO-BOD decision, if necessary
- B. Develop New Research Problem Statement | *Tim Cunningham and Bruce Erickson, Presenters*
- C. Develop New NCHRP 20-7 Research Problem Statements | *Tim Cunningham and Selected Authors, Presenters*

TUESDAY, JULY 21, 2015

10:00 a.m.–Noon

Salon FG

Development and Finalization of New Research Problem Statements | *Tim Cunningham and Bruce Erickson, Presenters*

Development and Finalization of New NCHRP 20-7 Problem Statements | *Tim Cunningham and Selected Authors, Presenters*

WEDNESDAY, JULY 22, 2015

1:00 p.m.–5:00 p.m.

Salon FG

1:00 p.m.–3:00 p.m.

Update on the AASHTO–EMTSP/NCPP Equipment Management Training and Certification Program | *Larry Galehouse, NCPP, Presenter*

New or Updated Activities and Publications | *Dick Baron, Presenter*

- A. Status update of the EMTSP website
- B. E-Mail Distribution Lists update—Regional Partnerships and Global
- C. Annual TRB Meeting update—Video Presentations
- D. Survey Monkey® updates

National Performance Measurement Working Group: Updates | *Scott Ratterree, Presenter*

Activities for the Coming Year | *Tim Cunningham and Ron Pruitt, Presenters*

TRB AHD60–Committee on Maintenance Equipment Updates | *Lisa Kunzman, Presenter*

Open Discussion | *Tim Cunningham and Ron Pruitt, Moderators*

3:00 p.m.–3:30 p.m.

Break

3:30 p.m.–5:00 p.m.

EMTSP Oversight Panel Meeting | *Tim Cunningham & Ron Pruitt, Moderators*

2016 Joint National AASHTO–EMTSP/TRB Conference and Equipment

Trade Show | *Tim Cunningham, Presenter*

2017 Regional Partnership Conferences

PAVEMENT

Chair: **Anita Bush, NDOT**
Vice Chair: **Scott Capps, NCDOT** (Environmental and Workforce Development)
Vice Chair: **Jon Wilcoxson, KYTC** (Performance Management & Research)
FHWA Liaison: **Marc Hoelscher, FHWA**

MONDAY, JULY 20, 2015

3:30 p.m.–5:30 p.m.

Salon BC

Welcome and General PTWG Committee Business

- Overview and Membership
- Vision, Mission, and Strategic Goals
- Focus Areas
- Recent Accomplishments and 2015 Work Plan Goals
- Research Problem Statements and Schedule
- Introduction and Call for Resolutions
- 2013 and 2014 PTWG Priorities

Updates from AASHTO Partners

- FHWA PPETG Update | *Morgan Kessler*
- Updates on NCPP, TSP2, and Regional Partnerships | *Larry Galehouse*
- Industry Update | *James Moulthrop*

Technical Presentations

- Precast Concrete for State-of-the-Art Pavement Infrastructure Maintenance | *Kirsten Stahl*
- Pavement Preservation Roadmap Review Update | *Larry Galehouse*

TUESDAY, JULY 21, 2015

10:00 a.m.–Noon

Salon BC

Technical Presentations

- Guidelines for the Preservation of High-Traffic-Volume Roadways (R26) | *David Peshkin*
- Optimizing Pavement Maintenance and Rehabilitation Funding Through Use of the Rolling Wheel Deflectometer | *Curt Beckemeyer*

PTWG Annual Business Meeting

- 2015 Priorities
- 2015 Research Problem Statements
- 2015 Resolutions
- 2015 Work Plan

WEDNESDAY, JULY 22, 2015

1:00 p.m.–5:00 p.m.

Salon BC

1:00 p.m.–3:00 p.m.

Updates from AASHTO Partners

- FHWA Update | *Marc Hoelscher*
- NCHRP Update | *Amir Hanna*
- TRB Update | *James Bryant*

Technical Presentations

- Performances Measures for MAP-21 | *Jon Wilcoxson*
- NCAT/MnROAD Partnership | *Buzz Powell and Ben Worel*

3:30 p.m.–5:00 p.m.

PTWG Annual Business Meeting

- Discussion and Approval of:
 - 2015 Priorities
 - 2015 Research Problem Statements
 - 2015 Resolutions
 - 2015 Work Plan



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HIGHWAY SAFETY AND RELIABILITY

Chair: **Steve Lund, MNDOT**
Vice Chair: **Brad Darr, ND DOT** (Performance Measures and Environmental)
Vice Chair: **Jim Feda, SCDOT** (Workforce Development and Research)
FHWA Liaison: **Paul Pisano, FHWA**

MONDAY, JULY 20, 2015

3:30 p.m.–5:00 p.m.

Dubuque

Welcome/Introductions

Review HS&R TWG 2015 Work Plan/Development of TWG 2016 Work Plan | *Steve Lund*

Research Need (Statements) Status of Current Efforts and Identification and Discussion of New Needs | *Jim Feda*

Winter Group Reports

- Clear Roads | *Justin Droste*
- Aurora/TRB | *Max Perchanok*
- SICOP/PIARC | *Rick Nelson*

TUESDAY, JULY 21, 2015

10:00 a.m.–Noon

Dubuque

Research Needs follow up from Monday | *Jim Feda, SCDOT*

Safety and Reliability Research focus papers | *Jim Feda, SCDOT*

Trucker-Assisted Reporting and Multi-State Capability Levels | *Jim McGee*

Virginia's Experience with High-Friction Surface Treatments | *Michael Sprinke*

Paint Reflectivity Analysis for Decision Making | *Shaun Blaesing-Thompson*

Integrating Advanced Crash Prediction Methodologies Into the Identification and Prioritization of Roadway Illumination Installation, LED Conversion, and Removal in a Fiscally Constrained DOT Environment | *Ida van Schalkwyk*

WEDNESDAY, JULY 22, 2015

1:00 p.m.–5:00 p.m.

Dubuque

1:00 p.m.–3:00 p.m.

A Comparison of Maintenance Options for Traffic Sign Retroreflectivity | *Paul Carson*

FHWA Update | *Gabe Guevara*

1. TIM Training Initiative
2. Smarter Work Zones (Every Day Counts)

TWG discussion of the Winter of 2015—“What went well, and not so well—lessons learned”—TWG attendees

3:00 p.m.–3:30 p.m.

Break

3:30 p.m.–5:00 p.m.

Salt Best Management Practices | *Wilfrid Nixon*

Winter Research Focus Papers | *Brad Darr*

- Freezing of Anti-Icing Solutions on Road Surfaces | *Taisto Haavasoja*
- Winter Highway Maintenance—Balancing Concerns and Safety | *Charles Drda*
- The Progression of Anti-Icing Operations in North Carolina | *Scott Capps*
- Round Robin/Results of the Week | *Steve Lund*



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ROADWAY/ROADSIDES

Chair: **Jerry Hatcher, TDOT**
Vice Chair: **Erany Robinson-Perry, GADOT** (Environmental and Research)
Vice Chair: **Thomas Lyden, ODOT** (Performance Management and Workforce Development)
FHWA Liaison: **Will Beatty, FHWA**

MONDAY, JULY 20, 2015

3:30 p.m.–5:00 p.m.

Council Bluff

Welcome and Announcements | *Jerry Hatcher*

Vegetation Management Practices for Outdoor Advertising | *Beth Perkin*

Environmental Issues in Maintenance Operations | *Russell Yurek*

Closing Announcements | *Jerry Hatcher*

TUESDAY, JULY 21, 2015

10:00 a.m.–2:30 p.m.

Council Bluff

10:00 a.m.–Noon

Welcome and Announcements | *Jerry Hatcher*

VDOT Optimized Work Planning Tools | *Robie Prezioso and Eric Brooks*

Accelerated Sign Inventory and Management | *Dr. Zhaohua Wang and Erany Robinson-Perry*

Research Needs and Closing Announcements | *Jerry Hatcher*

WEDNESDAY, JULY 22, 2015

1:00 p.m.–5:00 p.m.

Council Bluff

1:00 p.m.–2:45 p.m.

Welcome and Opening Announcements | *Jerry Hatcher*

FHWA Roadside Hardware Mentoring Program for Maintenance and Design Staff | *Will Longstreet*

WSDOT's Gray Book: Performance Measures and Accountability | *Pasco Bakotich*

2:45 p.m.–3:15 p.m.

Break

3:15 p.m.–5:00 p.m.

The Use of Tablet Technology for Roadside Feature Condition Reporting and Decision Making | *Shawn Blaesing-Thompson*

Overview of the NTPEP and APEL AASHTO Technical Service Programs/
How TN DOT Utilizes NTPEP Data | *Greta Smith and Danny Lane*

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BRIDGE

Chair: **Jeffrey L. Milton, VDOT**
Vice Chair: **Steven J. Cook, MDOT** (Research and Workforce Development)
Vice Chair: **David R. Miller, LDOT** (Performance Measures and Environmental)
FHWA Liaison: **Morgan Kessler, FHWA**

MONDAY, JULY 20, 2015

1:00 p.m.–3:00 p.m.

Davenport

Welcome and Introductions– | *Jeff Milton*

Review of Work Plan Accomplishments | *Jeff Milton*

Remarks by Vice Chairs

TSP2 Update | *Ed Welch*

Reports from Chairs of the TSP2 Bridge Preservation Partnerships

Update of FHWA LTBP | *Sue Lane*

TUESDAY, JULY 21, 2015

10:00 a.m.–Noon

Davenport

Develop Research Needs Statements | *All*

Develop Resolutions | *All*

Discussion–State of Good Repair | *All*

Develop Work Plan for 2015–2016 | *All*

WEDNESDAY, JULY 22, 2015

1:00 p.m.–5:00 p.m.

Davenport

Corridor Evaluation of Concrete Bridge Decks | *Siva Venugopalan*

Bridge Management Funding Programs | *Josh Sletten*

Research Update | *Amir Hanna*

FHWA Update | *Morgan Kessler*

AASHTO SCOBS Update | *David Miller and Ben Rabun*

Bridge Painting Working Group Reports | *Jeff Pouliotte; Presented by Jeff Milton*

Structural Health Monitoring | *Chris Kavers and David Miller*

AASHTO Bridge Management Software (BrM) | *Todd Thompson*

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2017 RHODE ISLAND



2018 NORTH CAROLINA



2019 MICHIGAN



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