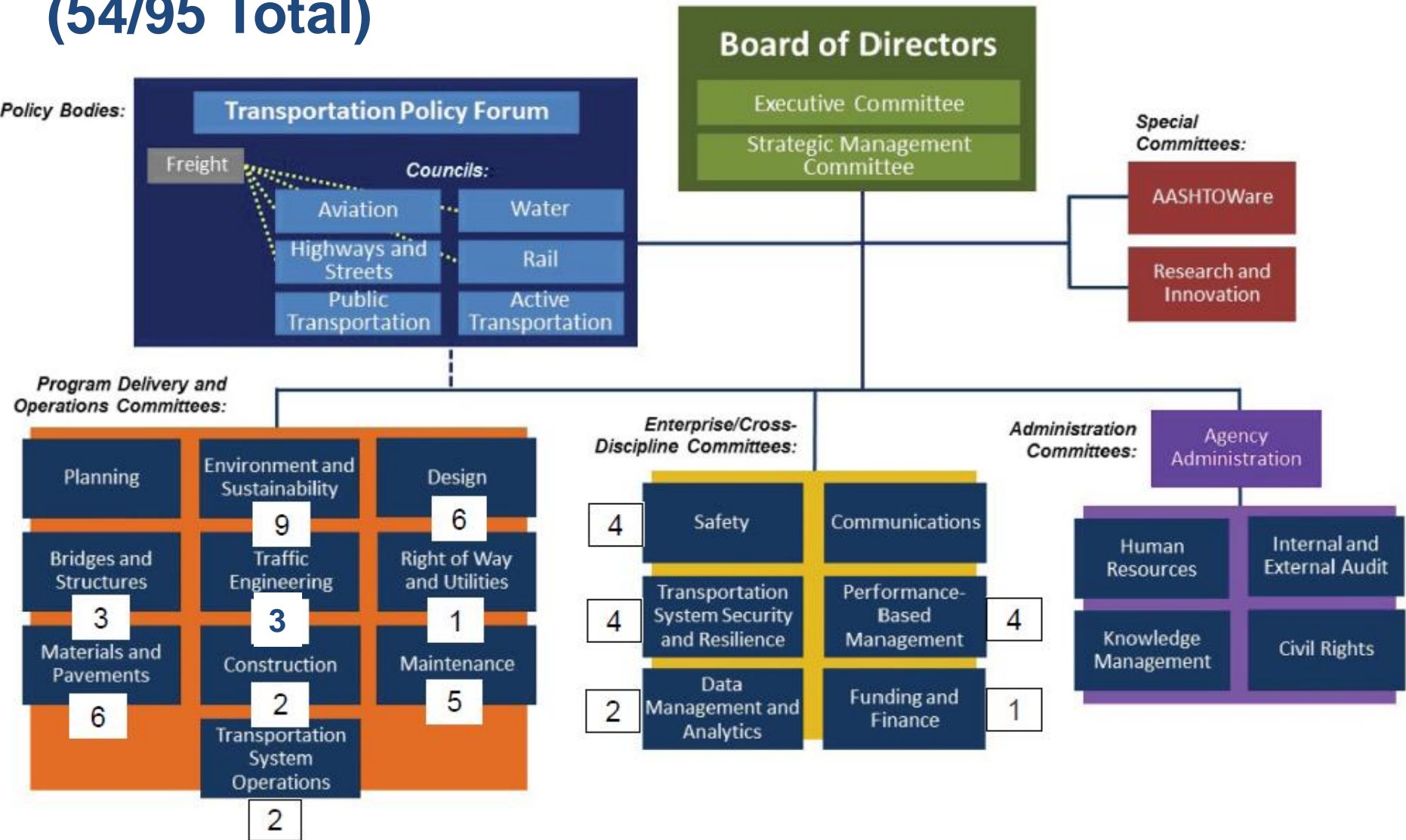


NCHRP UPDATE TO THE AASHTO COMMITTEE ON TRANSPORTATION SYSTEMS OPERATIONS

Ray Derr

FY 2019 NCHRP: AASHTO Submitted Problems (54/95 Total)



Program Delivery and Operations Committees:



Enterprise/Cross-Discipline Committees:



Administration Committees:



FY 2019 NCHRP, Problems Submitted by AASHTO Committees

AASHTO Committee	# Of Problems Submitted	# of Problems Programmed
Bridges and Structures	5	2
Construction	2	2
Data Management and Analytics	2	2
Design - Geometric Design	1	1
Design - Roadside Safety	5	5
Environment	9	4
Funding and Finance	1	1
Maintenance	5	3
Materials and Pavement	6	3
Performance-Based Management	4	3
R& I Research		2
Right of Way, Utilities and Outdoors	1	1
Safety	4	4
Traffic Engineering	3	1
Transportation System Security and Resilience	4	2
Transportation Systems Operations	2	2
Total	54	38

NCHRP LIAISON SERVICES

RAY DERR & GWEN CHISHOLM-SMITH

Tier 1 Support

- Establish and maintain relationship with AASHTO Staff
- Participate in meetings
- Explain NCHRP/CRP/TRB processes and facilitate their participation
- Provide recommendations on drafting successful research problem statements
- Provide information on new projects and solicit panel nominations
- Provide information on new research products and implementation opportunities
- Invite feedback on the NCHRP
- Coordinate with TRB Technical Activities Staff, as appropriate

NCHRP LIAISON SERVICES (CONT.)

Tier 2 Support

- Provide updates on current projects
- Arrange for presentations, workshops, etc. on NCHRP research
- Track the status of products intended for AASHTO publication
- Provide feedback on submitted problem statements
- Stay abreast of critical topics

Tier 3 Support

- Act as technical resource, particularly for completed and current research
- Assist with internal committee research processes
- Act as liaison to relevant TRB Committees and other related organizations

SELECT PROJECTS OF INTEREST

- Committee on Transportation System Operations
 - Subcommittee on Operations
 - WG on Operations Strategies
 - WG on Traffic Incident Management
 - WG on Freight Operations
 - Subcommittee on Technology
 - WG on Systems Integration
 - WG on Communications Technology
 - WG on Connected/Automated Vehicles
 - WG on Intelligent Transportation Systems
 - Subcommittee on Performance Management & Data

SELECT PROJECTS OF INTEREST (1/9)

- **Committee on Transportation System Operations**
 - ❑ Transportation System Management and Operations (TSMO)
Workforce: Skills, Positions, Recruitment, Retention, and Career Development [NCHRP 20-07/Task 408]
 - ❑ Operational Standards for Highway Infrastructure [NCHRP 03-126]
 - Subcommittee on Operations
 - WG on Operations Strategies
 - WG on Traffic Incident Management
 - WG on Freight Operations
 - Subcommittee on Technology
 - WG on Systems Integration
 - WG on Communications Technology
 - WG on Connected/Automated Vehicles
 - WG on Intelligent Transportation Systems
 - Subcommittee on Performance Management & Data

SELECT PROJECTS OF INTEREST (2/9)

- Committee on Transportation System Operations
 - Subcommittee on Operations
 - **WG on Operations Strategies**
 - Performance-Based Management of Traffic Signals [NCHRP 03-122]
 - Guidance for Planning and Implementing Multimodal, Integrated Corridor Management [NCHRP 03-131]
 - WG on Traffic Incident Management
 - WG on Freight Operations
 - Subcommittee on Technology
 - WG on Systems Integration
 - WG on Communications Technology
 - WG on Connected/Automated Vehicles
 - WG on Intelligent Transportation Systems
 - Subcommittee on Performance Management & Data

SELECT PROJECTS OF INTEREST (3/9)

- Committee on Transportation System Operations
 - Subcommittee on Operations
 - WG on Operations Strategies
 - **WG on Traffic Incident Management**
 - Leveraging Big Data to Improve Traffic Incident Management [NCHRP 17-75]
 - Preparing TIM Responders for Connected Vehicles and Automated Vehicles [NCHRP 20-102(16)]
- WG on Freight Operations
- Subcommittee on Technology
 - WG on Systems Integration
 - WG on Communications Technology
 - WG on Connected/Automated Vehicles
 - WG on Intelligent Transportation Systems
- Subcommittee on Performance Management & Data

SELECT PROJECTS OF INTEREST (4/9)

- Committee on Transportation System Operations
 - Subcommittee on Operations
 - WG on Operations Strategies
 - WG on Traffic Incident Management
 - **WG on Freight Operations**
 - Challenges to CV and AV Application in Truck Freight Operations [NCHRP Web-Only Document 231]
 - Guide for Identifying, Classifying, Evaluating, and Mitigating Truck Freight Bottlenecks [NCHRP Report 854]
 - Subcommittee on Technology
 - WG on Systems Integration
 - WG on Communications Technology
 - WG on Connected/Automated Vehicles
 - WG on Intelligent Transportation Systems
 - Subcommittee on Performance Management & Data

The National Academies of

SELECT PROJECTS OF INTEREST (5/9)

- Committee on Transportation System Operations
 - Subcommittee on Operations
 - WG on Operations Strategies
 - WG on Traffic Incident Management
 - WG on Freight Operations
 - Subcommittee on Technology
 - **WG on Systems Integration**
 - Cybersecurity of Traffic Management Systems
[NCHRP 03-127]
 - Business Models to Facilitate Deployment of
CV Infrastructure to Support AV Operations
[NCHRP 20-102(12)]
 - WG on Communications Technology
 - WG on Connected/Automated Vehicles
 - WG on Intelligent Transportation Systems
 - Subcommittee on Performance Management & Data

SELECT PROJECTS OF INTEREST (6/9)

- Committee on Transportation System Operations
 - Subcommittee on Operations
 - WG on Operations Strategies
 - WG on Traffic Incident Management
 - WG on Freight Operations
 - Subcommittee on Technology
 - WG on Systems Integration
 - **WG on Communications Technology**
 - Essential Communications: A Guide to Land Mobile Radio (LMR) [NCHRP 03-129]
 - ITS Communications Integration Needs for Legacy and Emerging Programs Including CV and AV [NCHRP 20-07/Task 409]
 - WG on Connected/Automated Vehicles
 - WG on Intelligent Transportation Systems
- Subcommittee on Performance Management & Data

SELECT PROJECTS OF INTEREST (7/9)

- Committee on Transportation System Operations
 - Subcommittee on Operations
 - WG on Operations Strategies
 - WG on Traffic Incident Management
 - WG on Freight Operations
 - Subcommittee on Technology
 - WG on Systems Integration
 - WG on Communications Technology
 - **WG on Connected/Automated Vehicles**
 - Advancing Automated and Connected Vehicles: Policy and Planning Actions for State and Local Transportation Agencies [NCHRP Report 845]
 - For more, <http://bit.ly/2y8gEm4>
- WG on Intelligent Transportation Systems
- Subcommittee on Performance Management & Data

SELECT PROJECTS OF INTEREST (8/9)

- Committee on Transportation System Operations
 - Subcommittee on Operations
 - WG on Operations Strategies
 - WG on Traffic Incident Management
 - WG on Freight Operations
 - Subcommittee on Technology
 - WG on Systems Integration
 - WG on Communications Technology
 - WG on Connected/Automated Vehicles
 - **WG on Intelligent Transportation Systems**
 - Expediting Future Technologies for Enhancing Transportation System Performance [NCHRP Report 750, Vol. 3]
 - Transportation Agency ITS Infrastructure Decisions Considering V2I Deployment [NCHRP 20-07/Task 376]
- Subcommittee on Performance Management & Data

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SELECT PROJECTS OF INTEREST (9/9)

- Committee on Transportation System Operations
 - Subcommittee on Operations
 - WG on Operations Strategies
 - WG on Traffic Incident Management
 - WG on Freight Operations
 - Subcommittee on Technology
 - WG on Systems Integration
 - WG on Communications Technology
 - WG on Connected/Automated Vehicles
 - WG on Intelligent Transportation Systems
 - **Subcommittee on Performance Management & Data**
 - Analyzing Data for Measuring Transportation Performance by State DOTs & MPOs [NCHRP 20-05/48-14]
 - Algorithms to Convert Basic Safety Messages into Traffic Measures [NCHRP 03-137]
 - Developing Data Standards and Guidance for Transportation Planning and Traffic Operations [NCHRP 08-119]

FOR MORE INFORMATION

- Transportation Research Information Database (TRID)—<https://trid.trb.org>
 - Under Resources, Snap Searches
- For CV/AV, <http://bit.ly/2y8gEm4> with monthly(ish) updates
- Subscribe to the TRB Electronic Newsletter—top of any TRB webpage
- Contact Ray Derr at rderr@nas.edu