

AASHTO / TRB Partnership

Data Management and Analytics Committee

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Data and Information Systems Section (ABJ00)

- Data Management and Information Systems Section
- Resources available
- Opportunities for collaboration on research and data initiatives
- Safety Data Initiatives

Data and Information Systems Section (ABJ00)

Standing Committees / Task Forces

- National Transportation Data Requirements and Programs
- Statewide Transportation Data and Information Systems
- Urban Transportation Data and Information Systems
- Highway Traffic Monitoring
- Travel Survey Methods
- Information Systems and Technology
- Geographic Information Science and Applications

Data and Information Systems Section (ABJ00) Standing Committees / Task Forces

- Artificial Intelligence and Advanced Computing Methods
- Statistical Methods
- Freight Transportation Data
- Visualization in Transportation
- Task Force on Data Privacy, Security, and Protection Policy
- Task Force on Understanding New Directions for the National Household Travel Survey

Resources Available for Partnerships

- Artificial Intelligence and Advanced Computing Methods
 - Big data analysis, data fusion, and machine learning algorithms
 - Real-time decision support systems
 - Primer on emerging artificial intelligence tools and application to transportation
- Statistical Methods
 - Three pillars: autonomous and connected vehicles, traditional transportation research, and large datasets
 - Circular on traditional and new statistical and econometric methods and software
- Visualization in Transportation
 - Visual Analytics (Information, scientific, and GIS technologies)
 - System performance
 - Interactive Visual Simulation
 - Building Information Modeling (BIM) for Infrastructure

Recent Collaborative Success

- NCHRP 08-36, Task 100:
Transportation Data Self Assessment Guide
[http://onlinepubs.trb.org/onlinepubs/nchrp/docs/NCHRP08-36\(100\)_FR.pdf](http://onlinepubs.trb.org/onlinepubs/nchrp/docs/NCHRP08-36(100)_FR.pdf)
- NCHRP 08-92:
Implementing Transportation Agency Data Self Assessment
NCHRP 814: Transportation Data Self-Assessment of Data to
Support Business Needs
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_w214.pdf
- 2019 TRB Annual Meeting Workshop:
Asset Data Self-Assessment

Collaborative Model

- TRB ABC40 Committee & AASHTO Sub-Committee on Asset Management
- Key interactions:
 - Identify opportunities for research problem statements
 - Incorporate AASHTO's feedback on research problem statements
 - Prioritize top Research Need Statements a joint effort by ABC40 and AASHTO Asset Management Sub-Committee
 - Joint meeting at the TRB Annual Meeting to discuss common research needs

Potential Areas for Engagement

- Actively participate in DMA Committee and Research Sub-Committee as members
- Coordinate with DMA Research Sub-Committee on ongoing ABJ00 NCHRP research and research needs.
- Pursue annual meeting activities where there could be partnerships opportunities for research problem
- Coordinate on and prioritize mutual interest research needs

Safety Data Initiatives

- Solving For Safety Visualization Challenge
<https://www.transportation.gov/solve4safety/fact-sheet>
- 2nd State Roadway Safety Data Capabilities Assessment
<https://safety.fhwa.dot.gov/rsdp/toolbox-home.aspx>
https://safety.fhwa.dot.gov/rsdp/downloads/rsdp_usrsdca_final.pdf
- NHTSA Traffic Records 101 website