



Committee on Data
Management & Analytics

American Association of State Highway and Transportation Officials

Purpose

The Committee on Data Management and Analytics (CDMA) shall **address the collection, procurement, processing, analysis, reporting, and sharing of transportation data.**

The Committee on Data Management and Analytics is dedicated to addressing issues related to **knowledge, expertise, resources and tools needed by State DOTs** to implement a robust data management and analytics program within their agencies.

AASHTO Committees **CDMA in the AASHTO Committee Structure**

Transportation Policy Forum	Program Delivery and Operations	Enterprise/Cross-Discipline Committees	Agency Administration	Special Committees
Active Transportation Council	Bridges and Structures	Communications (TransComm)	Civil Rights	AASHTOWare
Aviation Council	Construction	Connected and Automated Vehicles	Human Resources	Research and Innovation
Special Committee on Freight	Design	Data Management and Analytics	Internal & External Audit	
— Highway Transport	Environment and Sustainability	Funding and Finance	Knowledge Management	
Highways and Streets Council	Maintenance	Performance-Based Management		
— U.S. Route Numbering	Materials and Pavements	Safety		
— Wireless Communications Technology	Planning	— Safety Management		
— SHRP2	Right of Way, Utilities, and Outdoor Advertising Control	— Highway Safety Manual		
Public Transportation Council	Traffic Engineering	Transportation System Security and Resilience		
— MTAP	— National Committee on Uniform Traffic Control Devices			
Rail Council	Transportation System Operations			
Water Council				

<https://data.transportation.org/>

AASHTO Transportation News Services Meetings About Store

DATA MANAGEMENT AND ANALYTICS

- Membership
- Data Principles
- Calendar
- CDMA Newsletter

Committee Charter
Our purpose and committee membership summary.

Committee Structure
Officers, chair and vice-chair.

Committee Types and Duties
The Committee includes the following Subcommittees.

Goals and Strategies
Strategic plan, One-Year Action Plan and Annual Report.

DATA PORTAL LOGIN **WHO ARE OUR LEADERS?**

AASHTO Liaison
Penelope Weinberger, Transportation Data Program Manager
Email: penelope@transportation.org

CDMA Goals

Goal 1: Promote AASHTO's *Core Data Principles* to guide the use of public or private sector transportation data. (AASHTO Goal 3)

Goal 2: Support member agencies with **recruitment and retention, capacity building, and skill development** related to data management and analytics. (AASHTO Goal 1)

Goal 3: Lead in transportation **data standardization** efforts. (AASHTO Goal 2)

Goal 4: Support both member agencies' decision-making data and analytics needs and the Board of Directors needs on policy, program, regulations and guidance related to data management and analytics (AASHTO Goals 1 and 3)

CDMA Goals Contd...

Goal 5: Support member departments in achieving best data practices. (AASHTO Goals 1, 2, 3, and 4)

Goal 6: Foster communities of practice in topic areas of interest as determined. (AASHTO Goals 1, 2, and 4)

Goals 5 & 6 are aligned with the NOCeE Peer Exchange objectives.

Provide a platform to vet Issues and Challenges and engage in generating fresh strategies and solutions for harnessing the vast transportation data world.

GOAL 5

Support member departments in achieving best data practices. (AASHTO Goals 1, 2, 3, and 4)

Strategy 1

Support research to advance the development and use of tools and best practices in communicating data, data management and analytics.

Strategy 2

Coordinate with other AASHTO committees and Federal agencies and develop and advance an annual list of research priorities.

Strategy 3

Sponsor, coordinate and disseminate research to advance best practices in the management, use and standards relating to data and analytics.

Strategy 4

Assist member agencies with the adoption/implementation of completed research.

Strategy 5

Create a repository on the use of third party data sources by member agencies.

AASHTO Core Data Principles

- Principle 1 – **VALUABLE: Data is an asset**—Data is a core business asset that has value and is managed accordingly.
- Principle 2 – **AVAILABLE: Data is open, accessible, transparent and shared** —Access to data is critical to performing duties and functions, data must be open and usable for diverse applications and open to all.
- Principle 3 – **RELIABLE: Data quality and extent is fit for a variety of applications**—Data quality is acceptable and meets the needs for which it is intended.
- Principle 4 – **AUTHORIZED: Data is secure and compliant with regulations**—Data is trustworthy and is safeguarded from unauthorized access, whether malicious, fraudulent or erroneous
- Principle 5 - **CLEAR: There is a common vocabulary and data definition** —Data dictionaries are developed and metadata established to maximize consistency and transparency of data across systems.
- Principle 6 – **EFFICIENT: Data is not duplicated** —Data is collected once and used many times for many purposes.
- Principle 7 – **ACCOUNTABLE: Decisions maximize the benefit of data** Timely, relevant, high quality data are essential to maximize the utility of data for decision making.

1. VALUABLE
2. AVAILABLE
3. VALIDATED
4. SECURED
5. CLEAR
6. EFFICIENT
7. ACCOUNTABLE

<https://data.transportation.org/aashto-core-data-principles/>

Leadership

- Gregory Slater, MDOT
- April Blackburn, FDOT

Steering Committee

- Promote the **Vision, Mission and Goals** of the Association and the Committee
- Manage general Committee business
- Address **strategic and emerging issues** within the Committee scope
- Promote the **involvement of all Member Departments** in the Committee and its subgroups
- Oversee and provide **direction to any subcommittees**
- Oversee the development and implementation of the Committee's **research needs**
- Oversee the selection of the Committee's annual meeting site, and planning and implementation of the Committee's **annual meeting**
- **Fill vacancies** on the steering committee
- **Communicate and coordinate** with other appropriate AASHTO groups, technical services programs and outside stakeholders

Subcommittees

- **Subcommittee on Professional Development, Patrick Whiteford, AZ, Chair**
 - Addresses issues of professional development and capacity building
- **Subcommittee on Policy, formerly Tarun Malhotra, MI, Chair (Vacant)**
 - Addresses policy issues regarding data
- **Subcommittee on Research, Chad Baker, CA, Chair**
 - Addresses research needs and issues
- **Technical Services Subcommittee, Mike Bousliman, MT, Chair**
 - Oversees technical services and programs under the Data Committee such as GOTUG, GIS-T and any others that are developed
- **Subcommittee on Outreach and Coordination, Lou Anne Dougherty, NE, Chair**
 - Maintains relationships with other committees and organizations as pertinent to Committee business
- **Subcommittee on Communicating Data, formerly John Selmer, IA, Chair (Vacant)**
 - Addresses communication issues around data, data needs, gaps, research, outreach, and as needs arise
- **Subcommittee on Cybersecurity, Matt Modarelli, WA, Chair**
 - This subcommittee works jointly with Operations and Resiliency (TSSR) on issues of cybersecurity

Communities of Practice

- Data Governance – Denise Whitney-Dalkey
- CIO/CDOs – April Blackburn
- CAV – Daniela Bremmer
- HPMS
- Safety
- Travel Data
- Asset Data
- GIS-T

Data Annual Meeting and Exchange

Save the date

Oct 5 - 6, 2021

online

Sign up for the monthly Data Newsletter at

<https://data.transportation.org/cdma-newsletter/>

Check out our site at:

<https://data.transportation.org>