

2022 AASHTO RAC Annual Meeting

Mapping the Common Interests of AASHTO Committees

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Mapping the Common Interests of AASHTO Committees



- **Project Overview**
- **Methodology**
- **Products to Date**
- **Intended Uses**
- **Phase II Activities**

Project Overview

The American Association of State Highway and Transportation Officials (AASHTO) has over 30 committees.

Project Purpose:

- Identify interests common to multiple committees using analytical approach
- Suggest practices for enhancing collaboration and information sharing

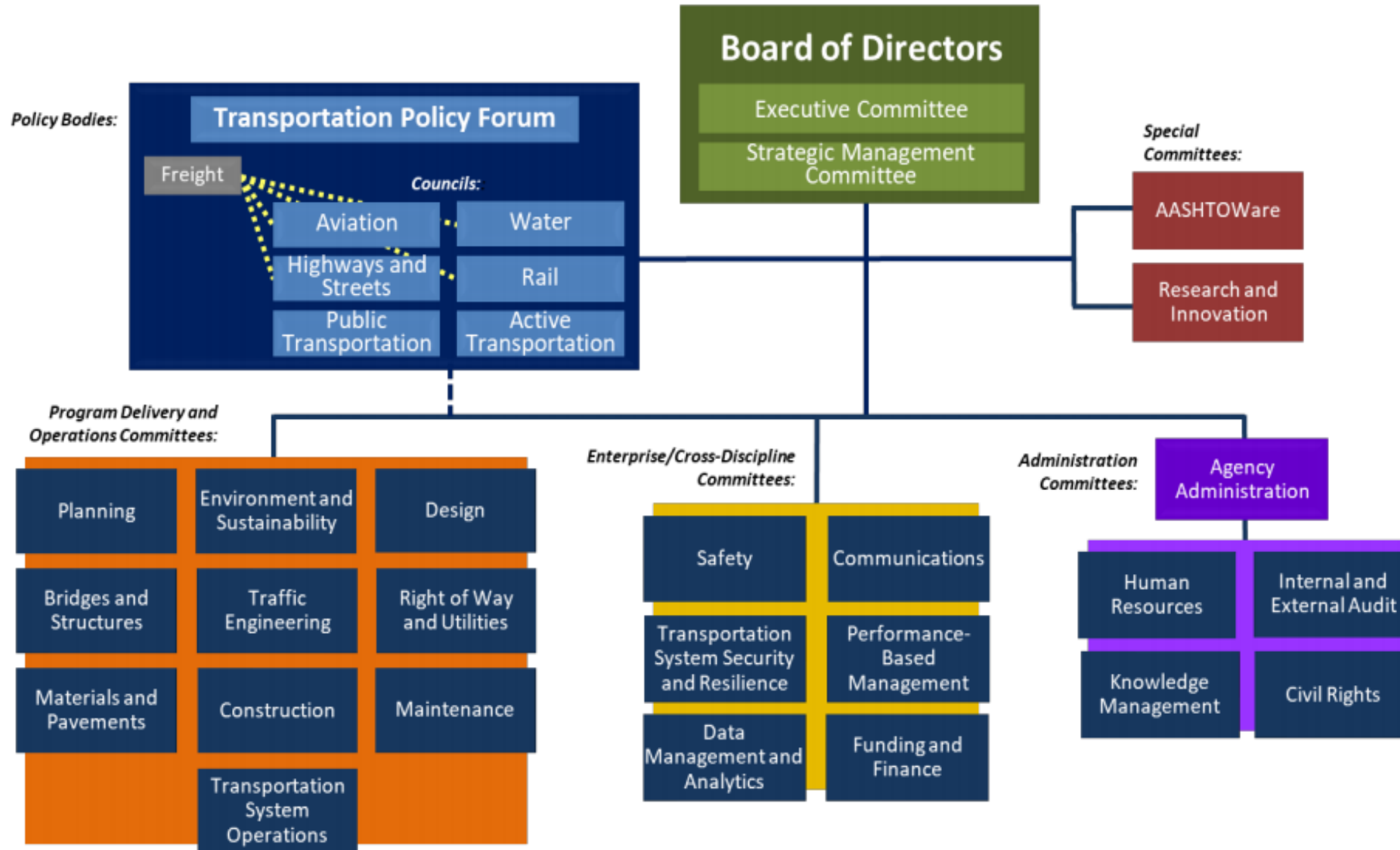


Links to Phase I Products:

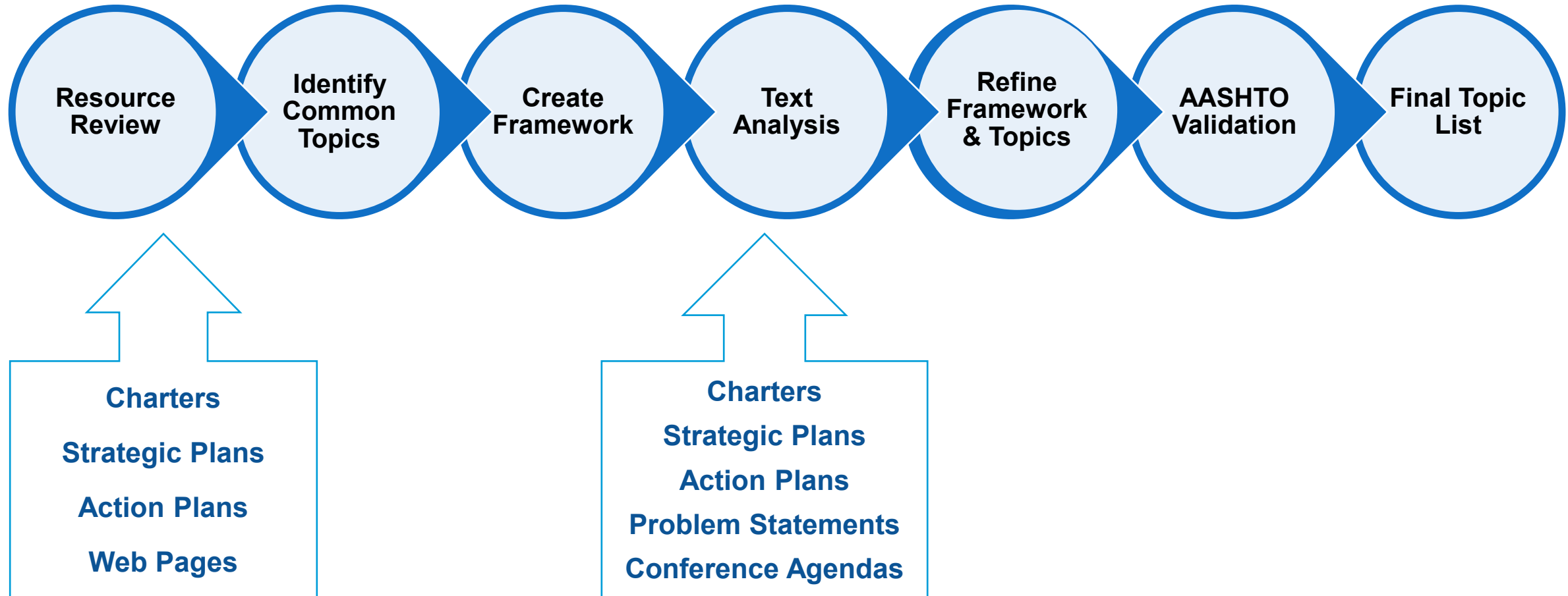
<https://apps.trb.org/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=4892>



AASHTO Committees



Methodology For Identifying Common Interests



AASHTO Committee Summaries

- **Committee Name**
- **Purpose (from Charter)**
- **Topical Subgroups**
- **Substantive Topics**
- **Collaborations (Current or Planned)**
- **Related AASHTO TSPs or Centers of Excellence**
- **External Partners/Stakeholders**
- **Links (websites, charters, plans)**



Council on Water

Purpose

The Council on Water Transportation shall develop policies for water transportation programs (ports, waterways, and associated facilities and services) for consideration by the Transportation Policy Forum (TPF) and shall provide technical expertise and management training for State water-related agencies.

Topical Subgroups

- Subcommittee on Policy
- Subcommittee on Rulemaking and Technical Services
- Subcommittee on Capacity Building and Education

Substantive Topics

- Advancing water transportation as part of an integrated multimodal transportation system
- Best practices for addressing Coastal, Inland, and Great Lakes waterways operations, funding, safety, and capacity needs
- National freight transportation network
- Water freight issues of national concern
- Workforce capacity building related to water transportation

Collaborations (Current or Planned)

- **Freight, Rail** – develop and implement effective multimodal research

Related AASHTO TSPs/Centers of Excellence

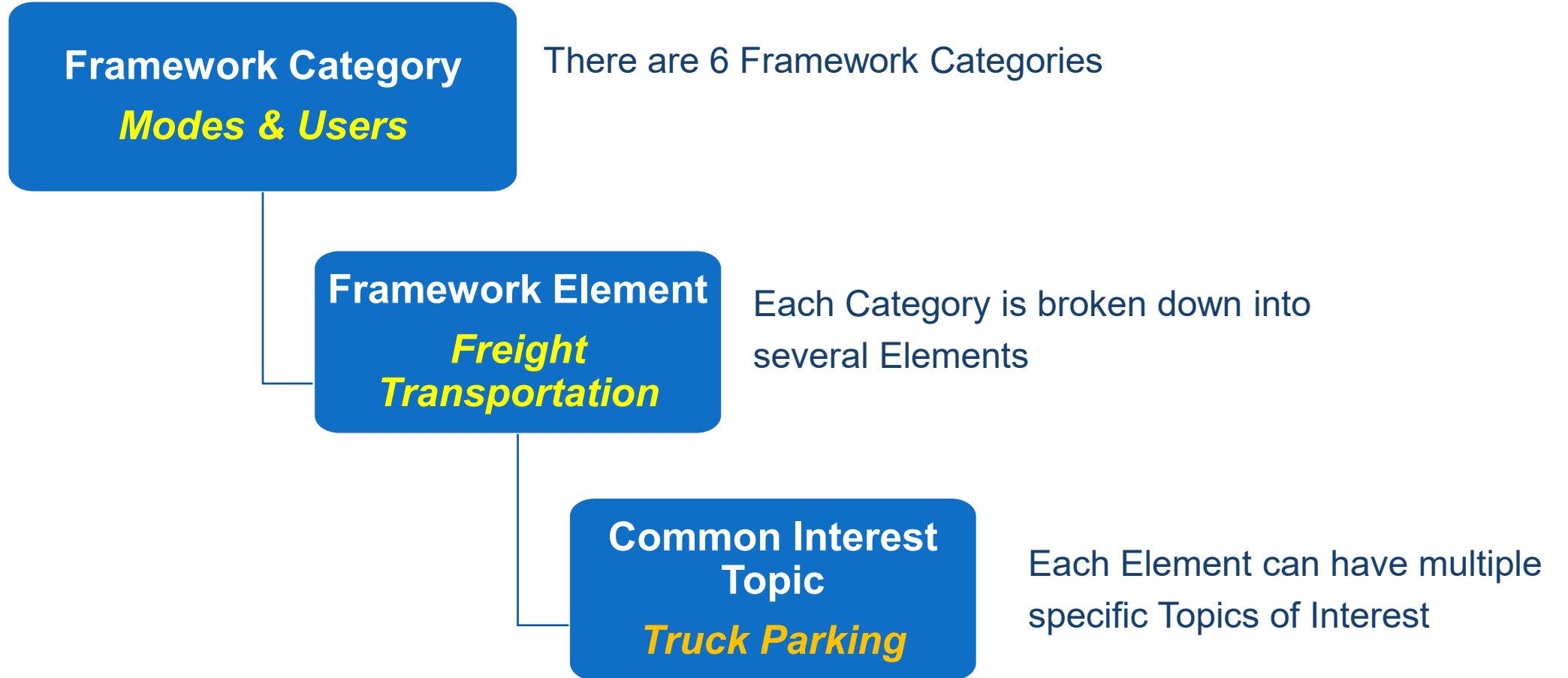
- None

External Partners/Stakeholders

- N/A

Links

AASHTO Common Interests Framework



Framework Categories & Elements

Modes & Users

- Multimodal Transportation (General)
- Highways & Streets
- Public Transportation
- Rail Transportation
- Water Transportation
- Air Transportation
- Active Transportation
- Freight Transportation

Assets

- Transportation Assets (General)
- Pavement
- Bridges and Structures
- Traffic and Safety Assets
- Operations/Telecommunications Assets
- Drainage Assets
- Geotechnical Assets
- Transit/Rail Assets

Concerns

- Safety
- Environmental Sustainability and Stewardship
- Diversity/Equity/Inclusion
- Security/Risk/Resilience
- Climate Adaptation
- Funding & Finance
- Policy & Regulation

Innovations/ Emergent Practice

- Technology Advancement/Innovation (General)
- Connected and Automated Vehicles (CAV)
- Data Analytics/AI
- Drones
- Advanced Air Mobility/Urban Air Mobility
- Smart Mobility/MaaS
- Electric Vehicles/Alternative Fuels
- BIM for Infrastructure
- Construction Technology
- Advanced Materials

Enabling Disciplines

- Performance Management
- Asset Management
- Right of Way/Utility Management
- Data Management, Modeling & Analysis
- Communication and Collaboration
- Knowledge Management
- Research Management
- Workforce Management & Development
- Risk Management
- Project Management
- Standardization

Development & Delivery Processes

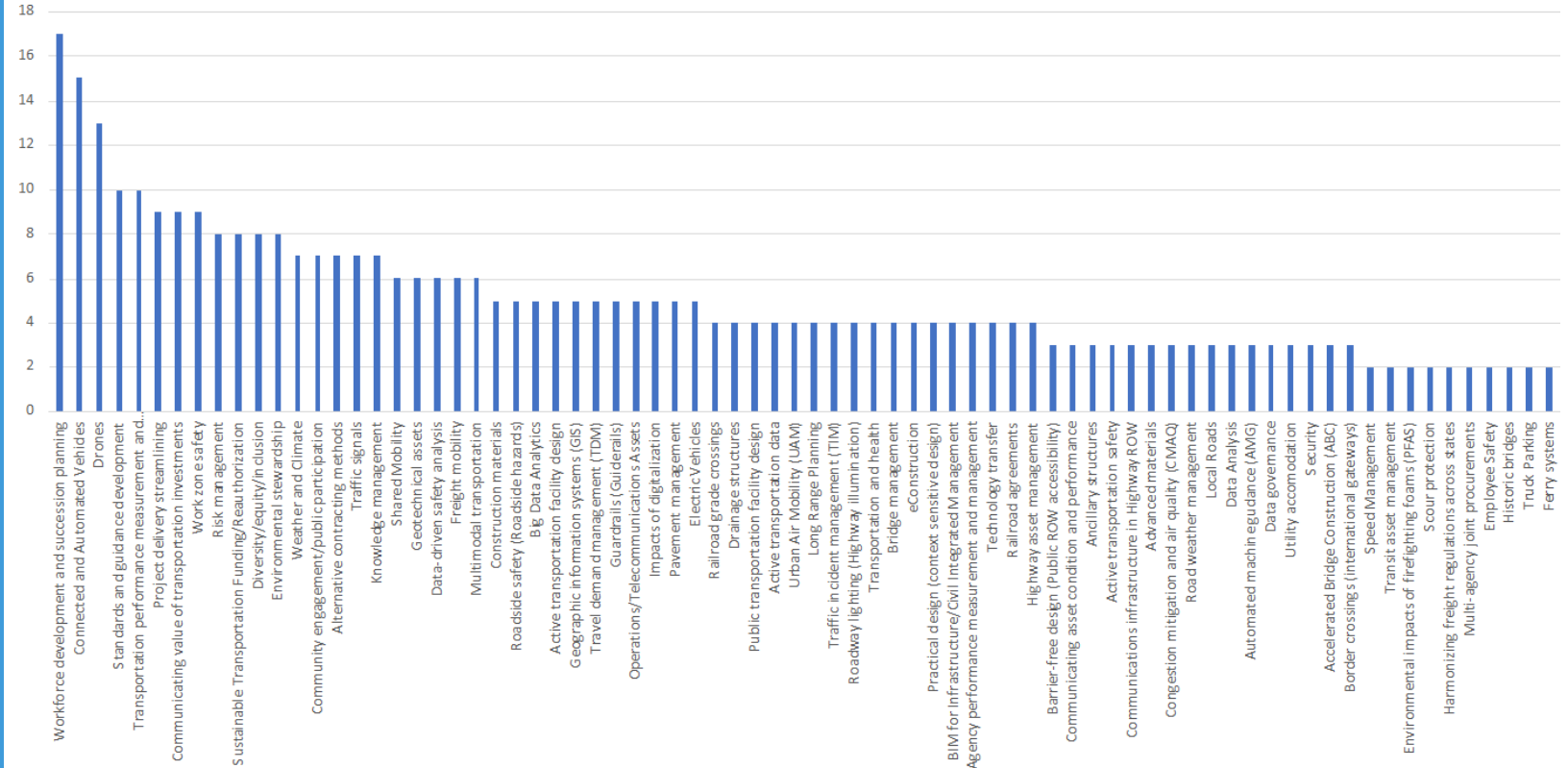
- Transportation Development & Delivery (General)
- Planning
- Design
- Traffic Engineering
- Construction
- Maintenance
- Operations
- Contracting/Procurement



Results

- 76 common interests identified
- 26 topics shared by 2-3 committees
- 28 topics shared by 4-5 committees
- 22 topics shared 6 or more committees

Committees with Each Common Interest

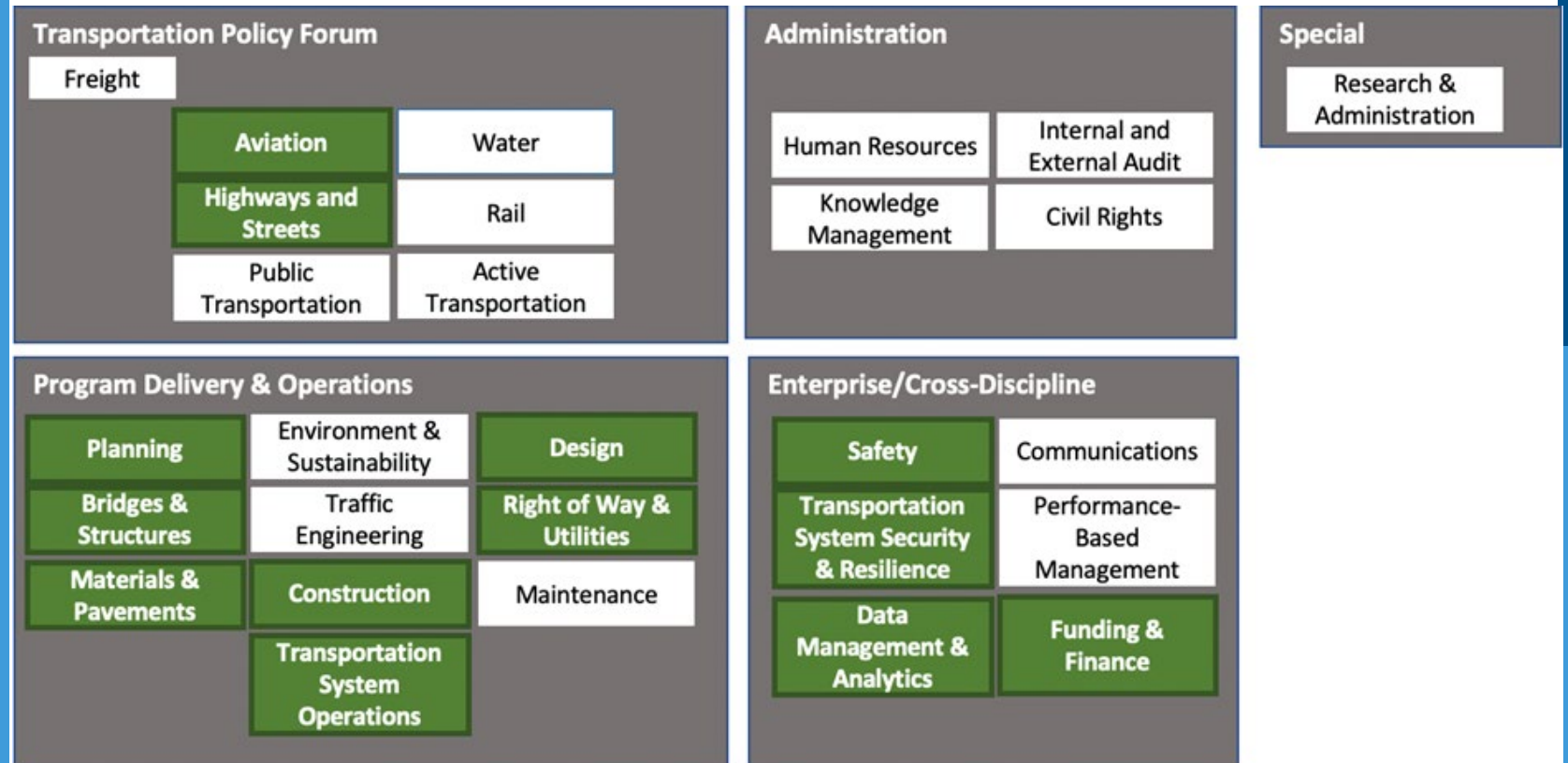


Results

Most popular topics:

- Workforce Development and Succession Planning (17 committees)
- Connected and Automated Vehicles (15 committees)
- Drones (13 committees)

Committees interested in Drones (shown in green)



AASHTO Common Interests Spreadsheet (excerpt)

Category/Element	Keywords/Related Terms	Common Interest Topics
Transportation Modes and Users		
Multimodal Transportation (General)	Intermodal Transportation, Transportation System Management	Multimodal transportation
		Border crossings (international gateways)
Highways & Streets	Public Roads, Roadways, Freeways, Arterials	
Public Transportation	Transit, Bus, Subway, Light Rail	Multi-agency joint procurements
Rail Transportation	Passenger Rail, Freight Rail, Railroad	Railroad grade crossings
		Railroad agreements
Water Transportation	Ferries, Waterways	Ferry systems
Air Transportation	Airports, Airplanes	Environmental impacts of firefighting foams (PFAS)
Active Transportation	Bicycling, Walking, Nonmotorized Transportation	Active transportation facility design
		Active transportation data
		Active transportation safety
Freight Transportation	Goods Movement, Motor Carriers, Shippers, Commercial Vehicle Operations	Freight mobility
		Truck Parking



Common Interests by Committee

Your Committee:

Public Transportation

Add Committee

Remove Committee

Add/Edit Related Interests

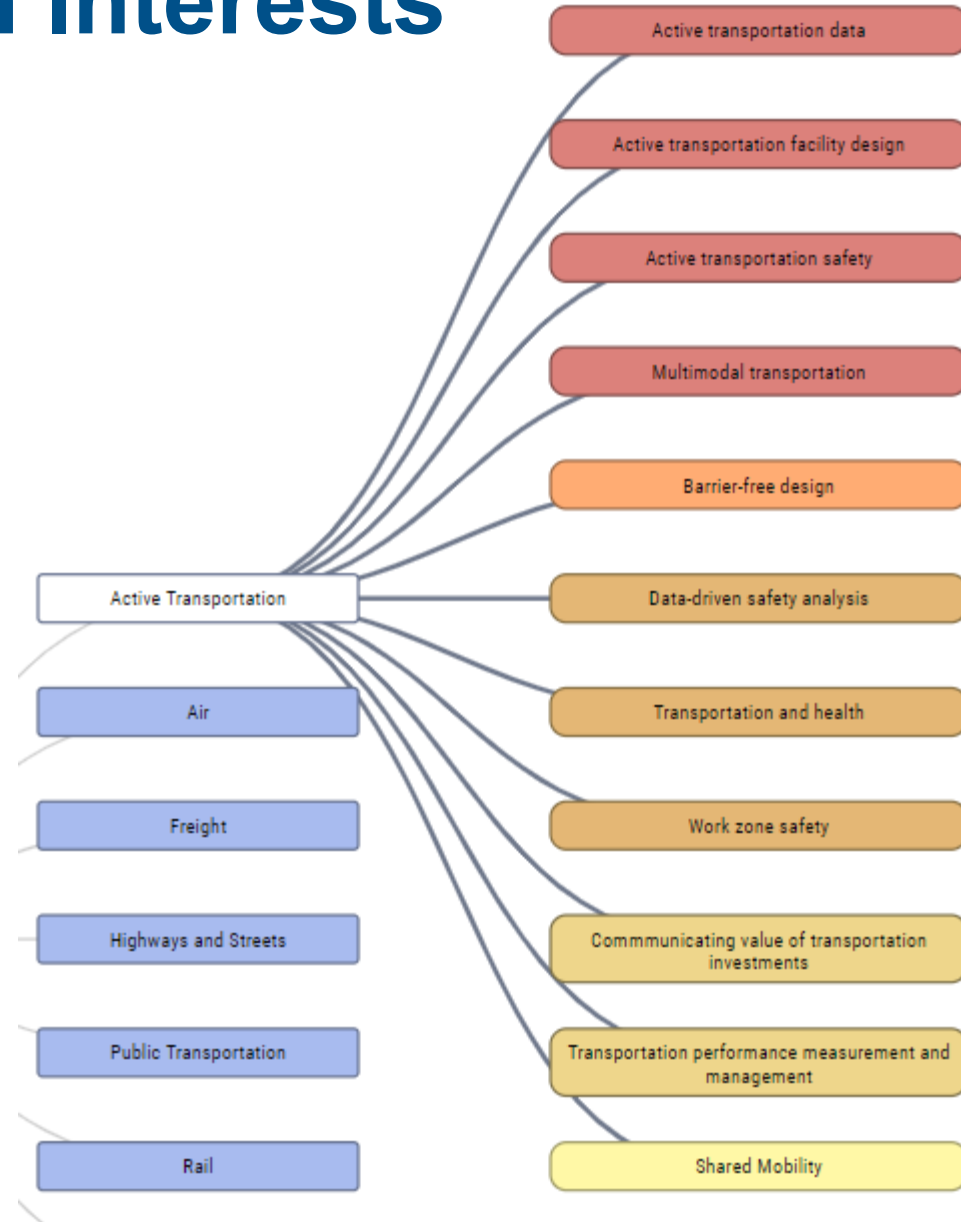
Visualization Tool

Areas of Interest	Select	Common Interest Topics	Committee-Specific Related Interests	Committees with this Interest
Transportation Modes and Users				
Multimodal Transportation (General) Intermodal Transportation, Transportation System Management	<input type="checkbox"/>	Multimodal transportation		Highways and Streets, Rail, Water, Active Transportation, Planning
	<input type="checkbox"/>	Border crossings (international gateways)		Freight, Planning, Transportation System Security and Resilience
	<input type="checkbox"/>			
Highways & Streets Public Roads, Roadways, Freeways, Arterials	<input type="checkbox"/>			
Public Transportation Transit, Bus, Subway, Light Rail	<input type="checkbox"/>	Multi-agency joint procurements		Public Transportation, Funding and Finance
	<input type="checkbox"/>			
Rail Transportation Passenger Rail, Freight Rail, Railroad	<input type="checkbox"/>	Railroad grade crossings		Freight, Safety, Traffic Engineering, Rail
	<input type="checkbox"/>	Railroad agreements		Highways and Streets, Rail, Water, Planning
	<input type="checkbox"/>			
Water Transportation Ferries, Waterways	<input type="checkbox"/>	Ferry systems		Water, Public Transportation
	<input type="checkbox"/>			
Air Transportation Airports, Airplanes	<input type="checkbox"/>	Environmental impacts of firefighting foams (PFAS)		Air, Environment and Sustainability
	<input type="checkbox"/>			
Active Transportation Bicycling, Walking, Nonmotorized Transportation	<input type="checkbox"/>	Active transportation facility design		Highways and Streets, Active Transportation, Design, Traffic Engineering, Safety
	<input type="checkbox"/>	Active transportation data		Active Transportation, Transportation System Operations, Safety, Data Management and Analytics
	<input type="checkbox"/>	Active transportation safety		Active Transportation, Safety, Transportation Communications



Navigating the Common Interests

- Common Interests Visualization Tool



<https://common-committee-interests.herokuapp.com/>



Uses of Common Interests Products

AASHTO
Leadership

AASHTO
Committee
Liaisons

Committee
Members

- Strategic Planning and Action Planning – Identify collaborators
- Event Planning – joint meetings/sessions/webinars
- Research – collaborate on research problem statements, identify panel members
- Standards, Guidance, Training – collaborate to meet common needs and leverage existing programs
- Onboarding – enable new committee members to understand common interests



Phase II (Now underway)

- **Refine the Common Interest Products**
 - Add subcommittees with distinct substantive technical interests
 - Validate, update & annotate common interests based on latest action plans & interviews
- **Document and Share Process for Integrating Use for Annual Action-Planning**
 - Describe and provide examples of how to use common interest products to identify collaborative actions
- **Document Collaboration Opportunities**
 - Highlight current areas of common interest and existing & potential future areas for collaboration
 - Suggested actions to facilitate collaboration



Questions?

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