

# AASHTO JTCEES

Joint Technical Committee on Electronic Engineering Standards



# Outline

- Who we are
  - AASHTO Organization
  - Membership
- What we've been doing
  - Webinars
  - Published documents
  - Active Initiatives

# Who we are

# Joint **Technical Committee** on Electronic Engineering Standards

## Technical Committees

The Committee on Design includes the following Technical Committees.

Alternative Project Delivery

Cost Estimating

**Electronic Engineering Standards**

Geometric Design

Hydrology and Hydraulics

Non-Motorized Transportation

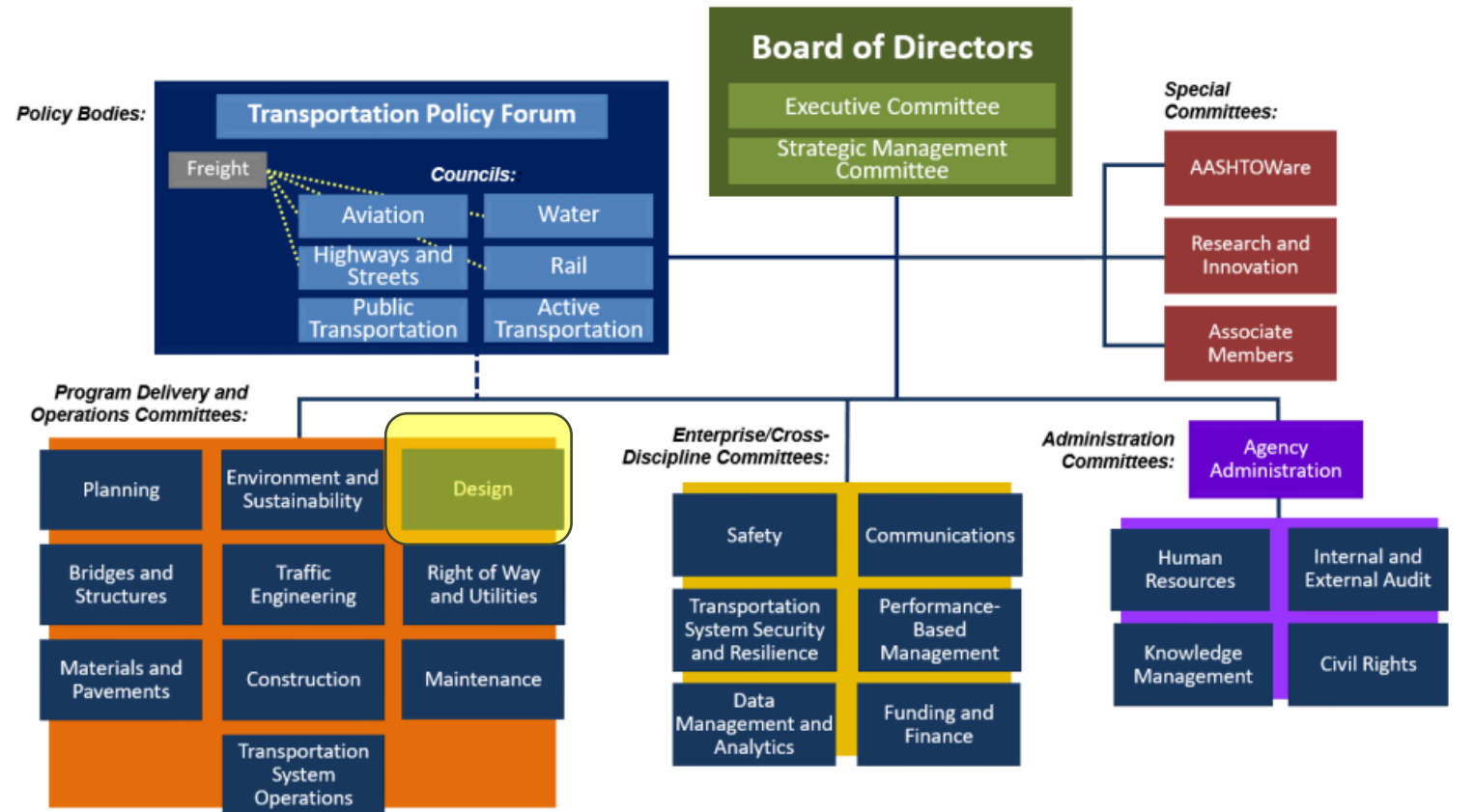
Project Management

Roadside Safety

Roadway Lighting

## AASHTO Committee Structure

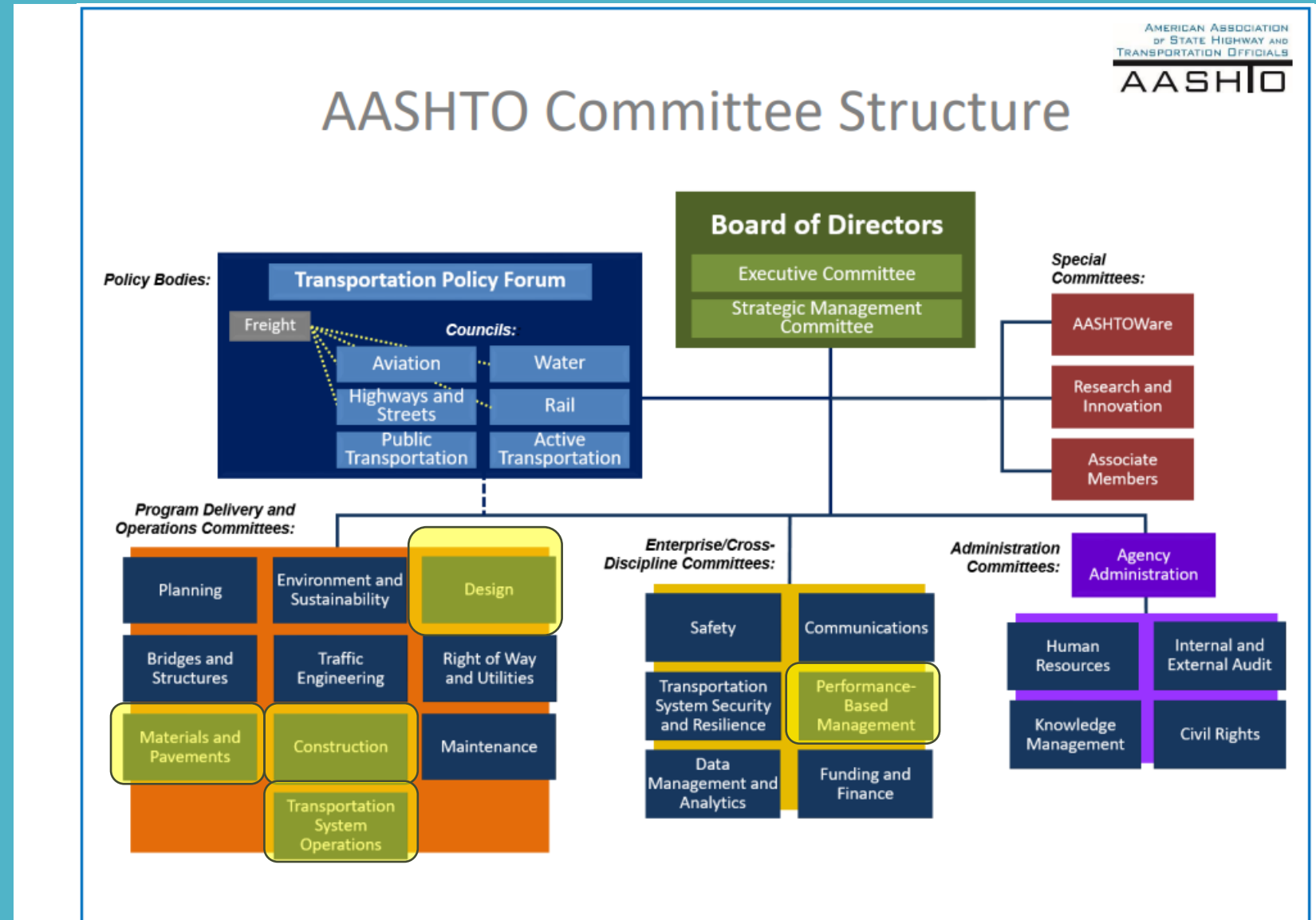
AMERICAN ASSOCIATION  
OF STATE HIGHWAY AND  
TRANSPORTATION OFFICIALS  
**AASHTO**



# Who we are

## Joint Technical Committee on Electronic Engineering Standards

- Parent Committee:
  - Design
- Collaborative Committees:
  - Construction
  - Materials & Pavement
  - Transportation System Operations
  - Performance-Based Management
- “Joint” =
  - Cross-disciplinary
  - Collaborative
  - Interoperability
  - Lifecycle focus



# Who we are

## Joint Technical Committee on Electronic Engineering Standards

- Electronic
  - Not paper
  - Digital
- Engineering
  - 3D design models
  - ...but more!
  - Asset Lifecycle
- Standards
  - Level of Development
  - Model Element Breakdown

The committee will identify the data needs, information requirements, and industry standards to assist the transportation industry effort to transition from traditional 2D plans to 3D information models. The intent of the models is to provide and capture data associated with infrastructure improvement projects. The data that is captured can be utilized for planning, design, and decision making throughout the life cycle of the asset.

# Who we are JTCEES

Name	Organization	Role	AASHTO involvement
Patricia Bush	AASHTO	Liaison	AASHTO Program Manager
Katherine Petros	FHWA	Liaison	JTCEES
Jennifer Lloyd	Tennessee DOT	Chair	COD
Sam Woods	Georgia DOT	Vice Chair	COD
Tony Menke	Kansas DOT	Member	COC
Brad Wagner	Michigan DOT	Member	COBS
Dan Mlacnik	Illinois DOT	Member	JTCEES
John Hancock	Georgia DOT	Member	COC
Lorraine Legg	Nebraska DOT	Member	JTCEES
Shawn Smith	Maine DOT	Member	COC
Cheryl Hersch Simmons	Utah DOT	Member	COBS
Jacob Tambunga	Texas DOT	Member	JTCEES
Allen Melley	Pennsylvania DOT	Member	JTCEES

Mission-Critical Friends: Consulting firms, software providers, etc.

# What we've been doing JTCEES

## 2021 Webinars

- Introduction to Building Information Modeling (BIM)
- Iowa's Digital QA/QC info
- Introduction to Industry Foundation Classes (IFC)
- Transition to 3D Model Project Delivery, Chief Engineer's Perspective
- 3D Model as a Legal Document Lessons Learned
- Building Information Modeling (BIM) and Asset Management

# What we've been doing JTCEES

## 2022 Webinars

- Lifecycle BIM for Infrastructure: A Business Case for Project Delivery and Asset Management
- Preparing Your Agency for Digital Delivery
- US National BIM Program Steering Committee
- BIM Global Benchmarking Scan
- BIM and GIS
- IFC in Action: Example Transportation Projects
- Level of Development Document

# What we've been doing JTCEES

Webinars  
Coming  
Soon

- ADCMS project
- Model Viewer
- NCHRP 10-113 Guidebook for 3D model review

# What we've been doing JTCEES

Published  
Documents  
on website

## BIM for Infrastructure Educational Materials

- [Model as a Legal Document Guidance](#)
- [Model as a Legal Document Guidance Appendices](#)
- [JTCEES Framework Summary/Introduction \(coming soon\)](#)
- [BIM Maturity Model Framework \(coming soon\)](#)

## Level of Development (LOD)

- [AASHTO JTCEES LOD Status Report](#)
- [MEB and LOD Intended Use](#)
- [JTCEES LOD Fundamental Definitions](#)
- [JTCEES-ACEC MEB Template](#)
- [JTCEES Changes to AIA LOD](#)
- [Training Videos \(coming soon\)](#)

# What we've been doing JTCEES

## 2025 AASHTO COD Annual Meeting

### Presentations to JTCEES

- Foundational Requirements to Establish **National Open Data Standards** (Will Sharp)
- **BIM for Bridges Pooled Fund**, IFC (Alexa Mitchell and Will Sharp)
- **BIM for Infrastructure Pooled Fund** (Brian Smith, John Wilkerson, and Sam Woods)
- **J-Stan** Update (Trish Stefanski)
- **bSI** summit and **IDSC** (Will Holmes)
- Review and input on TPF-5(480) **Information Requirements and Data Dictionary** (John Wilkerson and Sam Woods)

What we've been doing  
JTCEES

2025 AASHTO  
COD Annual  
Meeting

Work  
Sessions

### JTCEES Model Viewer Requirements

The model viewer **framework** has been defined to help categorize and associate **features, functionality, capabilities,** and users of 2D & 3D models

A **workshop** was held for members to identify their **needs/wants in a model viewer**. Information captured will be used to verify and validate a comprehensive list of features and functionality of model viewer software.

What we've been doing  
JTCEES

2025 AASHTO  
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### BIM Maturity Model

Existing document is being updated to **emphasize more interaction earlier in the project** with DOT's disciplines, surveyors, contractors, and CEI's.

Had roundtable from states to report out on where they are in their process. The plan is to have some of these project **examples added to the BIM Maturity Model as an Appendix.**

# What we've been doing JTCEES

## Stay in touch!

- Website:
  - <https://transportation.org/design/technical-committees/electronic-engineering-standards/>
- Meetings:
  - First Monday of each month
  - Desire for interaction with groups working towards the same goal
  - Coordination & Collaboration meetings with J-STAN twice per year
  - Will reach out to other groups in the DDSG
- Contact info:
  - Jennifer Lloyd, Chair, [jennifer.lloyd@tn.gov](mailto:jennifer.lloyd@tn.gov)
  - Sam Woods, Vice Chair, [swoods@dot.ga.gov](mailto:swoods@dot.ga.gov)