

WELCOME TO THE

**AASHTO**Ware™



**PAVEMENT**

**ME DESIGN**

**WEBINAR SERIES**

- The webinar will start at 11:00 AM Central/12:00 PM Eastern



# FY 2024 Webinar #4

## Using Libraries in the PMED Web Application

June 10, 2024

# FY 2024 Webinar #4, Using Libraries in the PMED Web Application

## Moderator:

- ▶ Hari Nair, PE, Virginia  
Department of  
Transportation; Chairperson

## Presenters:

- ▶ Chadwick Becker, Senior  
Software Developer; ARA

Presentation will be available for viewing on the  
ME-Design Resource website:

<http://www.me-design.com>

# Pavement ME Task Force Members

1. Ryan Fragapane, **AASHTO**, Product Director
2. Ben Sade, **AASHTO**, Associate Product Manager
3. Hari Nair, PE, Virginia DOT, **Chair**
4. Ian Rish, PE, Georgia DOT, **Vice-Chair**
5. Patrick Bierl, PE, Ohio DOT
6. Nusrat Morshed, PE, New Jersey DOT
7. Kumar Dave, PE, Indiana DOT
8. Dulce Feldman, PE, California DOT
9. Jason Simmons, PE, Utah DOT
10. Susanne Chan, Ontario MOT, TAC Liaison
11. Tom Yu, PE, FHWA Liaison

# FY 2024 Webinar #4, Using Libraries in the PMED Web Application

- ▶ Phones are being muted.
- ▶ The presenters will answer all questions at the end of the webinar/demonstration as time permits.
- ▶ Questions not answered, because of time, will be responded to separately.

# Housekeeping Items

# FY 2024 Webinar #4 Using Libraries in the PMED Web Application

## Poll 1: Questions 1, 2, and 3



# FY 2024, Webinar #4: Using Libraries in the PMED Web Application

## Webinar Outline:

1. Introduction
2. Xml/Library data concepts
3. Preparing the PMED library environment
4. Creating and using libraries with workspaces and user accounts
5. Uploading, checking, and using existing PMED design data.
6. FY25 Library improvements
7. Summary and takeaways
8. Question and answer session



# Introduction

## Agency Data – Libraries



# Learning Outcomes

At the end of the webinar the participant will be able to...

1. Recognize different types of PMED component XML data as libraries
2. Understand the difference and interactions between Libraries, Workspaces, and Users in PMED
3. Set up workspaces and associate them with libraries and users
4. Use library data in their designs
5. Organize XML data within libraries via composite libraries and design templates
6. Import XML data and review it in the PMED web application
7. Successfully transition library data from the PMED desktop application into the web application.

# Consider the Following – Terminology

**Design Guide Program XML –> DGPX –> Design File**

Before we get started – An important note on *ephemeral* design data in the web app vs. *permanent* library data in the web app.

# Consider the Following – Library Terminology

**Save** – An operation which writes the current state of a library to the production database.

**Load** – An operation which takes data from the database and puts it into the current session state.

**Import** – An operation which takes a file from the user's system and puts it into the current session state.

**Export** – An operation which takes data from system memory and writes it to the user's file system.

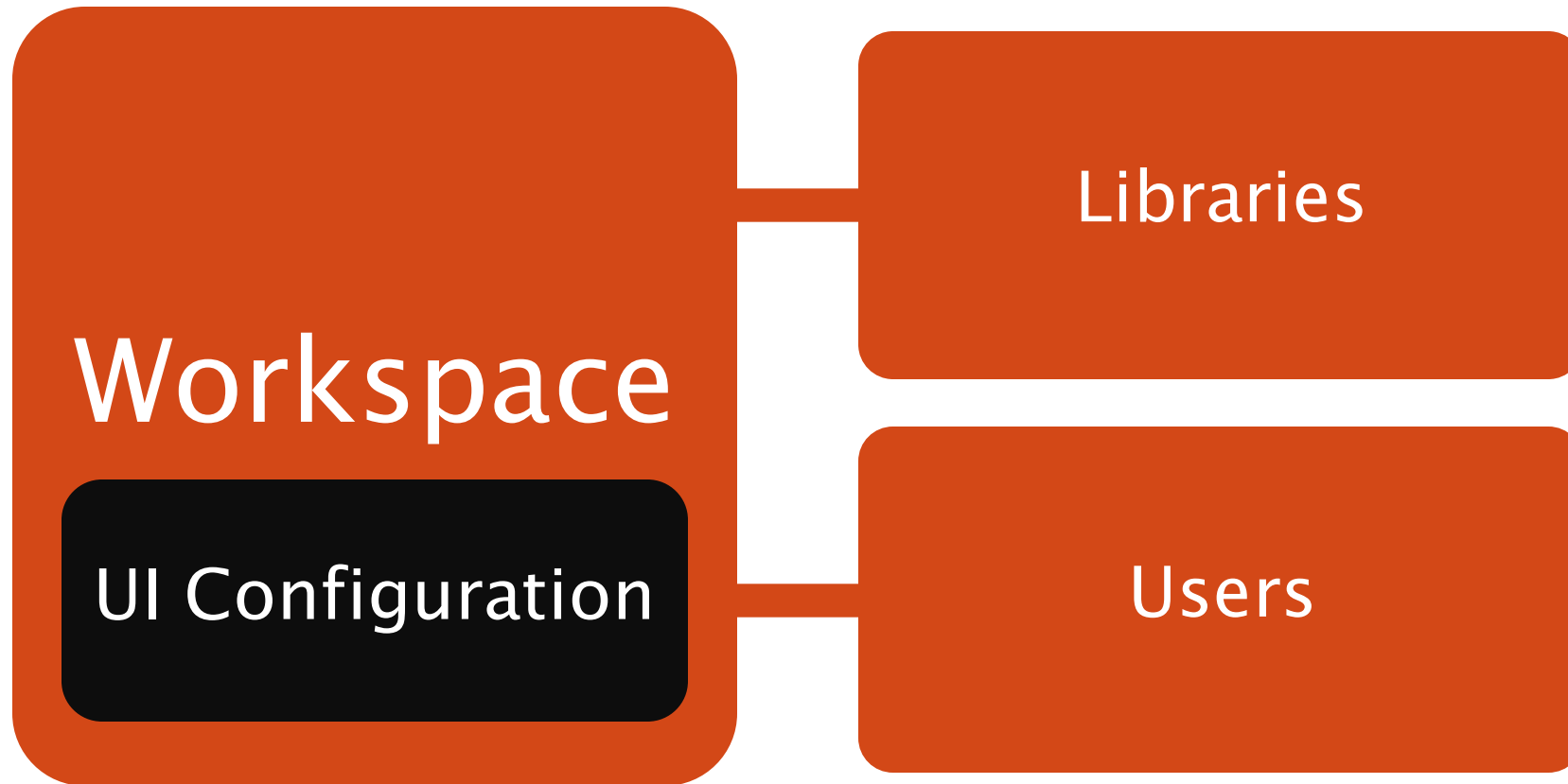
**Associate** – Create a link relationship between two objects

**Delete** – Remove a relationship between two objects **OR** remove an object from the system entirely.

# PMED Component Data



# Preparing a Tenant for Library Data





# Demo – Workspace

# Demo - Non-Material Library Creation



# Demo – Composite Library and Design Templates

# Demo – Material Library Creation

# Demo – Library Management and Workspace Association

# Demo - Using Libraries in the Design Editor

# Demo – Using Material Libraries in the Design Editor

# Some Common Questions and Answers Regarding Libraries, Workspaces, and Design Templates

**Q:** If I create a design template library, should I also create other libraries for traffic, performance criteria etc., or just use design templates?

**A:** Any combination of libraries and templates is allowed. Libraries are simply ways of grouping design component data together. It is up to the agency to determine the best path forward for managing their data in the system. We (ARA) recommend design templates be used where possible as they provide the most in-built versatility, but it is not “wrong” to build specific libraries for more specific use cases.

Q: Can I set up my libraries and workspaces to use my library data by default? For example, if I create a new design, can I have libraries designated to populate the data in the new design?

A: Unfortunately, not yet. This is a high priority feature that we will be implementing early in FY25.

Q: Can I make it so my users cannot use the System Workspace defaults? So that they cannot even select them as an option?

A: Also, not yet. Another high priority work item we have scheduled for completion early in FY25.

Q: I already have a bunch of XML files from previous calibrations and designs I've done in the past. How do I get them into the web application?

A: *I'm glad you asked* – This is the focus of the second half of the webinar.



# Existing PMED Design Data

How can I get my existing data from the desktop app to the web app?

*Export data to XML files if data is stored in a relational database such as MSSQL or Oracle*

*Import XML design data into PMED v3+ using built in tools*

# Importing Data

- ▶ Upload data to PMED using the library import tools
- ▶ Verify data is correct by examining inputs

# Demo - Importing Library Data

# What We've Covered So Far

1. How to recognize different types of PMED component XML data as libraries
2. Reviewed the difference and interactions between Libraries, Workspaces, and Users in PMED
3. How to set up workspaces and associate them with libraries and users
4. How to use library data in designs
5. How to organize XML data within libraries via composite libraries and design templates
6. How to import XML data and review it in the PMED web application
7. How to successfully transition library data from the PMED desktop application into the web application.

# Planned Library Enhancements for FY25

- ▶ “Default provider” libraries
- ▶ XML upload “migration report”
- ▶ Library sharing/viewing component
- ▶ Tenant admin control over workspace visibility
- ▶ User definable library metadata

# FY 2024 Webinar #4 Using Libraries in the PMED Web Application

## Poll 2: Questions 4 to 8



# Upcoming Webinars for FY 2025

- ▶ Using the new CIR/FDR design strategies in PMED
- ▶ Damaged dynamic modulus and MSCR overview
- ▶ Local calibration guide
- ▶ BcT workshop
- ▶ Reminder:
  - Slides, Q&A, and recording can be found at:
    - [AASHTOWare Pavement ME Design – Webinar Series \(me-design.com\)](https://me-design.com)

Looking for webinar topics for FY 2025 – Please submit any webinar topic suggestions.

# Upcoming Events for FY 2025

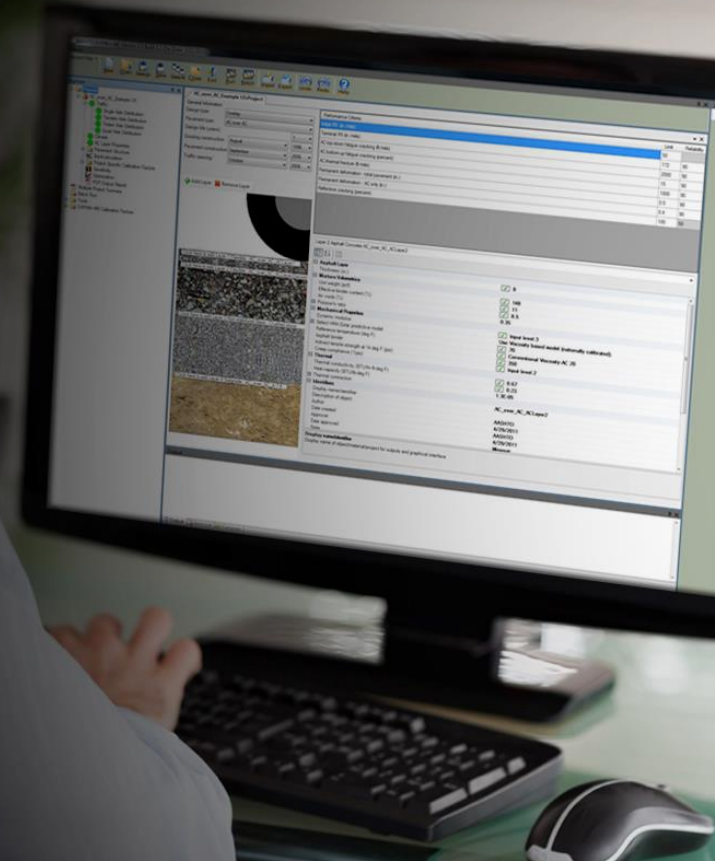
- ▶ Next PMED User Group Meeting on September 4-5 in Atlanta, GA
  - More info to follow from AASHTO



# QUESTION AND ANSWER SESSION



We welcome comments & suggestions for future webinars; Send an email to [pavementmedesign@ara.com](mailto:pavementmedesign@ara.com).



# Thank you for Attending the Webinar!

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## ME Design Resource Website

<https://me-design.com/MEDesign/>

NOTE: This is changing very soon to  
<https://pavementmedesign.org>

## Help Desk, Customer Support, **PREFERRED:**

- Pavement ME Design Help Desk  
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Webinar is closed.