

WELCOME TO THE



WEBINAR SERIES

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- The webinar will start at 10:00 AM Central/11:00 AM Eastern



FY 2023 Webinar #1
Data Management in PMED v3.0
Tenants, Libraries, and Workspaces
August 16, 2022

FY 2023 Webinar #1, Data Management in PMED v3.0 – Tenants, Libraries, and Workspaces

Moderator:

- ▶ Clark Morrison, North Carolina Department of Transportation; Chair
- ▶ Hari Nair, Virginia Department of Transportation; Co-chair

Presenters:

- ▶ Chadwick Becker (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 Project Manager
2. Clark Morrison, PE, North Carolina DOT, Chair
3. Hari Nair, PE, Virginia DOT, Vice–Chair
4. Patrick Bierl, PE, Ohio DOT
5. Kumar Dave, PE, Indiana DOT
6. Felix Doucet, Eng., Quebec MOT
7. Dulce Feldman, PE, California DOT
8. Ian Rish, PE, Georgia DOT
9. Susanne Chan, Ontario MOT, TAC Liaison
10. Tom Yu, PE, FHWA Liaison



FY 2023 Webinar #1, Data Management in PMED v3.0 – Tenants, Libraries, and Workspaces

- ▶ Phones are being muted.
- ▶ Please post your questions in the Q&A box. This can be accessed by clicking on the WebEx Q&A button.
- ▶ 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

If you have an issue with the webinar

INNOVATIVE SOLUTIONS TO COMPLEX PROBLEMS

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Audio Mute Me Participants Chat Annotate Q&A

Jerry A. DiMaggio, PE, D.GE

Selection of Geo-material Properties for Infrastructure Features to Reduce Risk and Enhance Value

Date: March 25, 2020

Webinar Wednesdays

ARA

Chat

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To ask a question

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Audio Mute Me Participants Chat Annotate Q&A

Jerry A. DiMaggio, PE, D.GE

Selection of Geo-material Properties for Infrastructure Features to Reduce Risk and Enhance Value

Date: March 25, 2020

Webinar Wednesdays

ARA

Q&A

All (0) My Q&A (0)

Send Send Privately...



Housekeeping Items

To see presentation full screen

The screenshot shows a webinar interface with a presentation slide. The slide title is "Jerry A. DiMaggio, PE, D.GE Selection of Geo-material Properties for Infrastructure Features to Reduce Risk and Enhance Value". The date "Date: March 25, 2020" is visible at the bottom left of the slide. The interface includes a top navigation bar with icons for Audio, Mute Me, Participants, Chat, Annotate, and Q&A. A "View" menu is open, showing options like "Fit in Viewer" (selected), "Fit to Width", and zoom percentages (25%, 50%, 75%, 100%, 200%, 400%). The bottom of the interface features a "Webinar Wednesdays" logo and the ARA logo.

FY 2023 Webinar #1; Data Management in PMED v3.0 – Tenants, Libraries, and Workspaces

Poll 1: Questions 1 and 2



Introduction Statements

- ▶ <https://pavementmedesign.com>
- ▶ PMED web services are located on our AASHTO hosted multi-tenant web server.
- ▶ Single tenant and on-premise deployments are also available.
- ▶ pavementmedesign@ara.com for more information or questions.



A Quick Note on Windspeed in MERRA

- ▶ MERRA-2 windspeed in the PMED API for **SI units** provides values in km/hr. Previously the units were being provided in m/s.
- ▶ MERRA-2 windspeed values in **SI HCD files downloaded** from the InfoPave site are still providing windspeed values in m/s.
 - InfoPave is correcting this to km/hr likely by the end of August.
- ▶ **Check your HCD files to ensure your windspeed values are in km/hr if you are working with SI units.**

PMED Subscription Services

- ▶ The desktop application is estimated to be sunset over a period of 5 years starting this July.
- ▶ PMED web services are located on our AASHTO hosted multi-tenant web server.
- ▶ Single tenant and on-premise deployments are also available. Future webinars will discuss single and on-premise deployments in more detail.
- ▶ pavementmedesign@ara.com for more information or questions.



Subscription Clarifications

- ▶ Purchasing and Access
- ▶ Subscription vs. Desktop
- ▶ V3.0 vs. v2.6.2
 - APADS runtime improvements
 - NCHRP 1–51 only in v3.0.0.
 - V3.0 includes rigid recalibration v2.6.2 does not



Prerequisites for this Webinar

No prerequisites are required.



The PMED Web Application Webinars

- ▶ Part I – PMED v3.0 – An Introduction
- ▶ Part II – Data Management in PMED v3.0 – Tenants, Libraries, and Workspaces



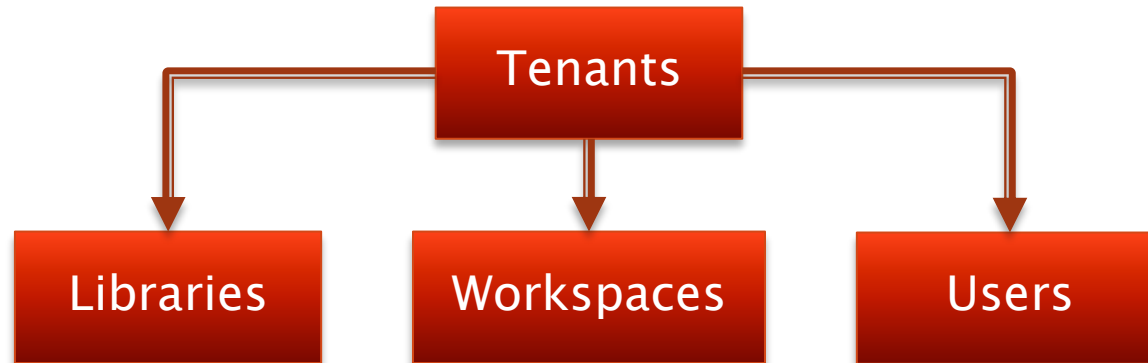
Learning Outcomes

- Be able to define tenants, libraries, and workspaces in PMED.
- Understand how tenants, libraries, and workspaces are related to each other, and how they are used in the application
- How to access and manage a tenant.
- How to add new users to your tenant.
- Defining and assigning PMED policies to users and groups.
- How to create and manage library data, including material libraries and full design templates.
- How to create and manage a workspace.
- How to manage users and libraries in a workspace.
- How to customize a workspace user interface.
- How to select a workspace for a user session and set it as the default.

FY 2023 – Webinar #1: Data Management in PMED v3.0: Part II – Webinar Outline

- ▶ Tenant Management
- ▶ Workspace Management
- ▶ Library Management
- ▶ User Management, Policies, and Agency Subscriptions
- ▶ Takeaway Review
- ▶ Question and answer session.

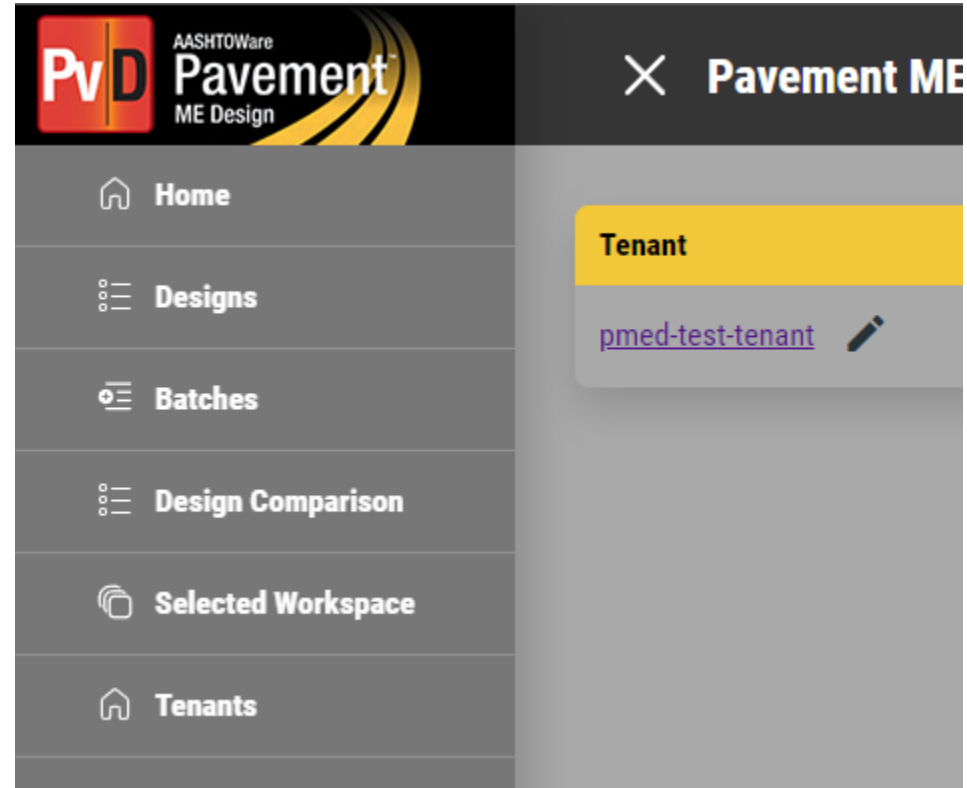
Tenants, Libraries, Workspaces, and Users



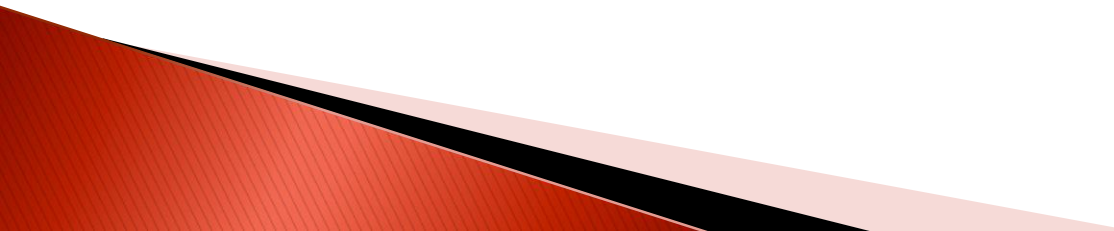
- ▶ **Tenants** – A group of users who share *common access* with *specific privileges* to the software instance.
- ▶ **Libraries** – Define the data you want to re-use in your Tenant.
- ▶ **Workspaces** – Are the data (and UI) defined for a specific use case in your Tenant.
- ▶ **Users** – Define who gets to use your Tenant.

Tenant Management

- ▶ Customers (agencies) may have multiple tenants (though this is not common)
- ▶ The tenant you utilize governs the workspaces and libraries you will have access to as a user.

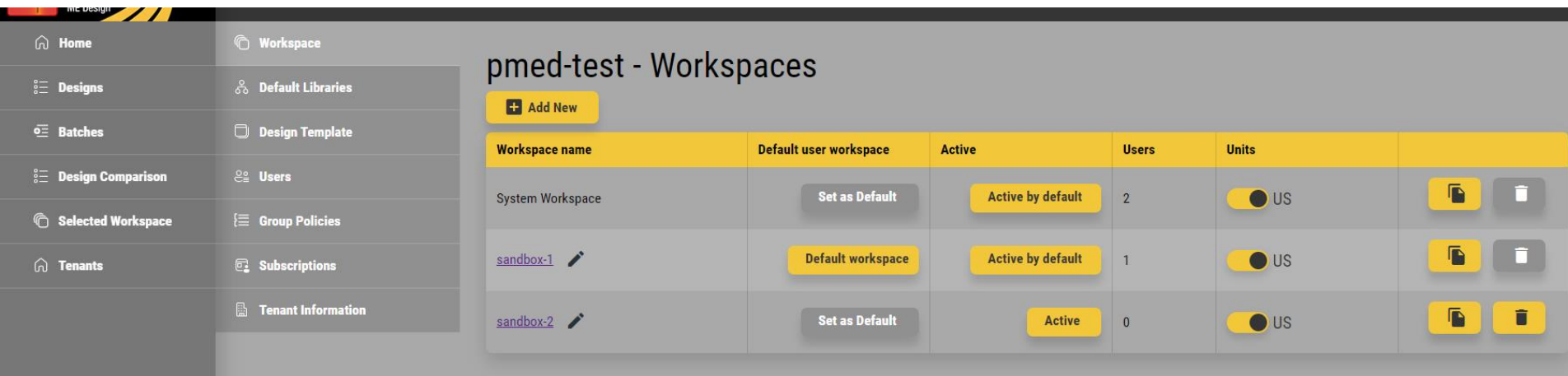


Tenant Features

- ▶ Workspace management
 - ▶ Library management
 - ▶ User management
- 

Workspace Management

- ▶ Workspaces are...
 - The data (and UI) defined for a specific use case in your Tenant.
 - A powerful tool for managing design data in PMED.



The screenshot displays the 'pmed-test - Workspaces' management interface. On the left is a navigation sidebar with options: Home, Designs, Batches, Design Comparison, Selected Workspace, and Tenants. The main content area shows a table of workspaces with columns for name, default status, active status, users, and units. Each row includes edit and delete icons.

Workspace name	Default user workspace	Active	Users	Units	
System Workspace	<button>Set as Default</button>	<button>Active by default</button>	2	<input checked="" type="checkbox"/> US	
sandbox-1	<button>Default workspace</button>	<button>Active by default</button>	1	<input checked="" type="checkbox"/> US	
sandbox-2	<button>Set as Default</button>	<button>Active</button>	0	<input type="checkbox"/> US	

“Sandbox-1” Workspace Component

- ▶ The workspace component allows you to...
 - Manage library associations
 - Manage users in the workspace
 - Edit the workspace UI configuration

The screenshot shows a web application interface for managing a workspace. The main heading is "pmed-test-tenant - sandbox-1". Below the heading are four action buttons: "Back to workspaces", "Edit user interface configuration", "Edit users", and "Edit libraries". The "Edit users" button is active. The main content area is titled "Paired Workspace Users" and features an "Add Association" button. Below this is a table with two columns: "User" and "Email". The table contains one row with the user "Chadwick Becker" and email "cbecker@ara.com". A "Remove" button is located to the right of the table row.

User	Email
Chadwick Becker	cbecker@ara.com

“Sandbox-1” Workspace – UI Configuration

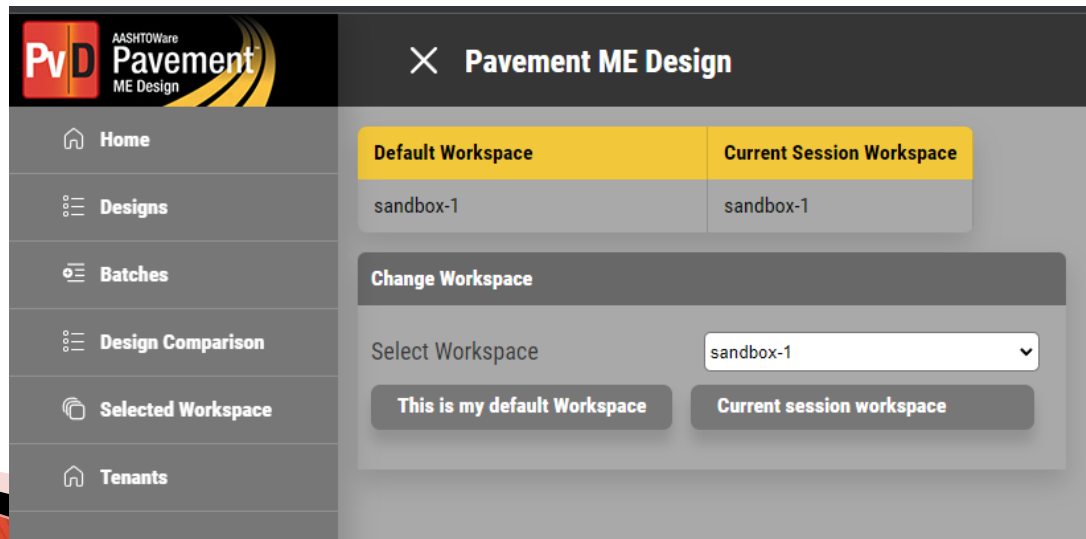
- ▶ Workspace UI Configuration allows you to...
 - Assign read/write/visibility flags to all component properties in a design
 - Arrange the order of all design component properties and tabs.

The screenshot displays the 'Sandbox-1' Workspace UI Configuration interface. On the left, a sidebar lists categories with 'Visible' checkboxes: General Information, Performance Criteria, Traffic, Climate, Structure, Maintenance Strategy, Calibration, and Design Properties. The main panel, titled 'Properties (drag to reorder)', shows a list of properties with their respective visibility and read-only flags, and their values.

Property	Visible	Read-Only	Value
Design Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US_New_Flexible_2yr
Design Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	New Pavement
Pavement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Flexible Pavement
Design Life in Years	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2
Base Construction Date	<input checked="" type="checkbox"/>	<input type="checkbox"/>	May 2021
Pavement Construction Date	<input checked="" type="checkbox"/>	<input type="checkbox"/>	June 2022
Traffic Opening Date	<input checked="" type="checkbox"/>	<input type="checkbox"/>	September 2022

“Sandbox-1” Default and Session Workspace Selection

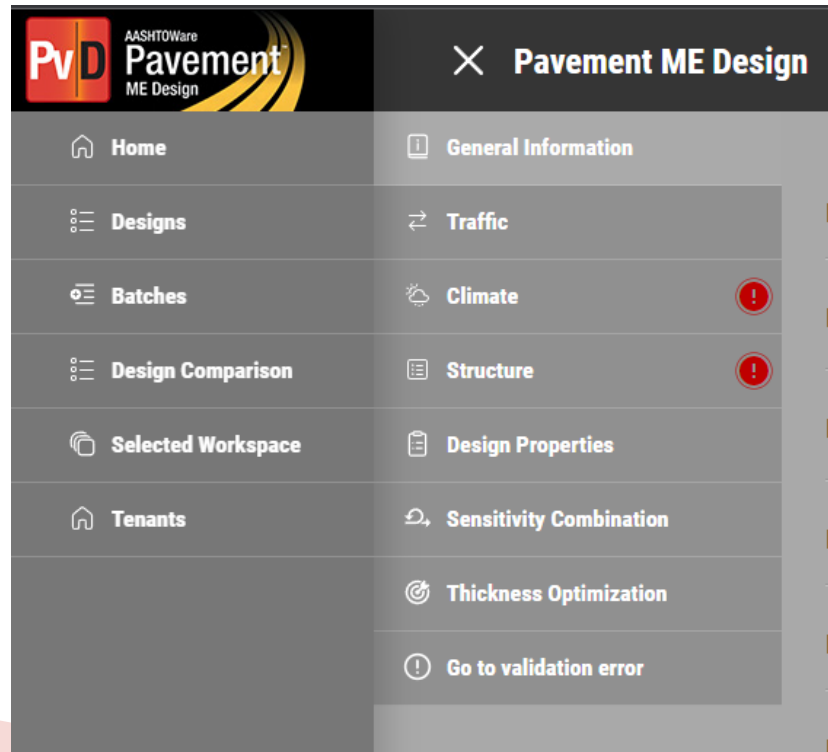
- ▶ Remember, before we can start using a workspace and its corresponding UI configuration settings...
 - Make sure a user has been associated with the workspace.
 - Same for libraries, which we will look at soon.
 - Make sure your “Selected Workspace” is set to the workspace you want to use for your session.
 - You can also set the default workspace in this component.



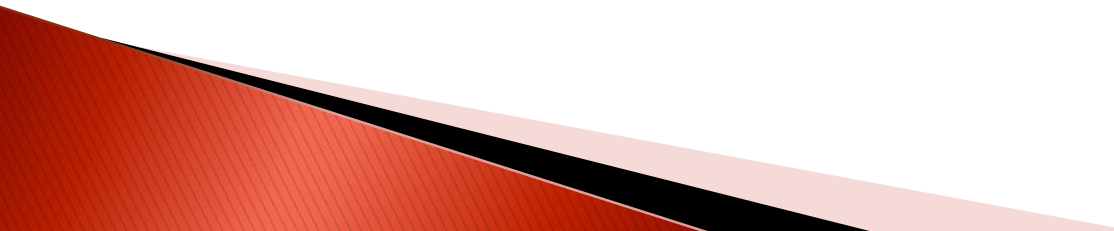
The screenshot displays the 'Pavement ME Design' software interface. On the left is a navigation sidebar with the following items: Home, Designs, Batches, Design Comparison, Selected Workspace, and Tenants. The main content area is titled 'Pavement ME Design' and contains a workspace selection panel. This panel has two columns: 'Default Workspace' and 'Current Session Workspace', both of which currently show 'sandbox-1'. Below this is a 'Change Workspace' section with a 'Select Workspace' dropdown menu set to 'sandbox-1'. At the bottom of this section are two buttons: 'This is my default Workspace' and 'Current session workspace'.

“Sandbox-1” Customized Design Editor UI

- ▶ As expected, the workspace UI has changed our design editor component configuration.
- ▶ The order and visibility of property fields in the Structure component is altered according to our specific settings



Library Management – Overview

- ▶ How to use libraries
 - Ex: Calibration Factors; Traffic; Material – Asphalt
 - Design Templates
 - ▶ Uploading/Downloading library modules
 - ▶ Libraries and future improvements
- 

Library Management – How to Use Libraries

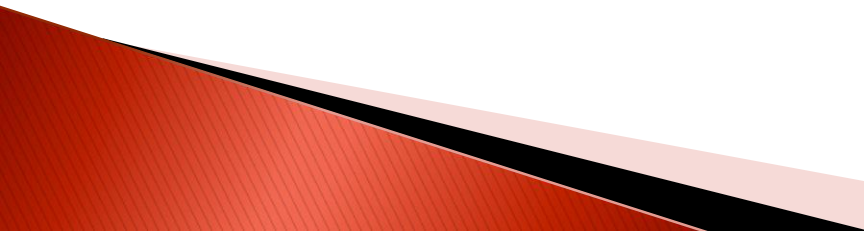
- ▶ Create a library
- ▶ Choose library component **Modules**
- ▶ Associate with workspace(s)
- ▶ Don't forget to Save!



Library Management – Uploading, Downloading

- ▶ Once you have saved your library module(s), you may want to download them to share, or to copy it to another workspace
- ▶ To download a library module, while in the library click the “...” and select “Download [module_name].xml”
- ▶ You can always delete a library using the trash can icon on the component page.

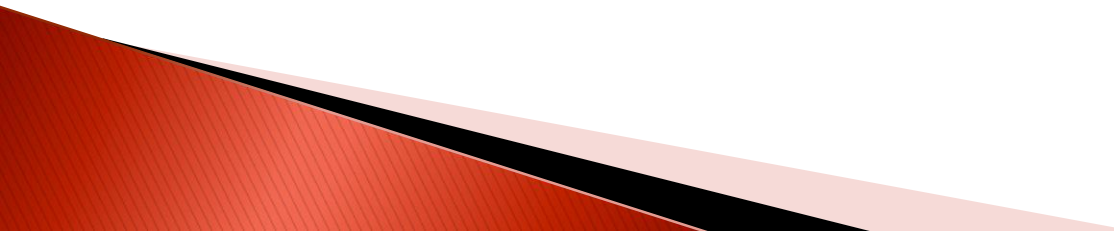
Library Management – Importing into a Design

- ▶ Navigate to your design editor
 - ▶ Navigate to the design component or module you would like to import and click the “...” in the bottom right
 - ▶ Select the module menu item
 - ▶ Select “Import [module_name] Library”
 - ▶ Select the library to import
- 

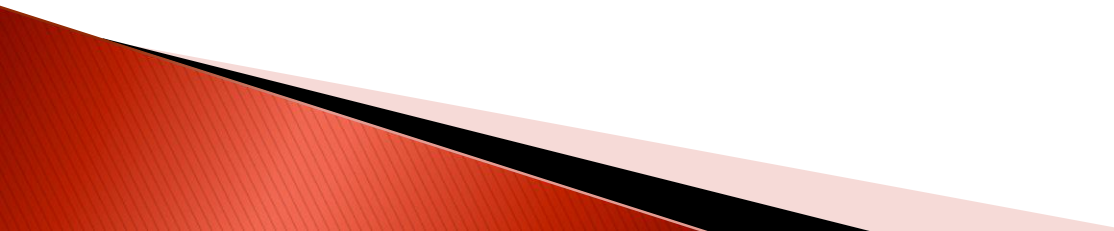
Library Management – Material Libraries

- ▶ Material libraries are unique libraries that correspond to a specific type of material
- ▶ Working with material libraries

Library Management – Design Templates

- ▶ Design templates are entire designs saved in your tenant workspace that can be used to create new designs.
 - ▶ Creating a design from a template ensures all data from the template is loaded into your new design.
- 

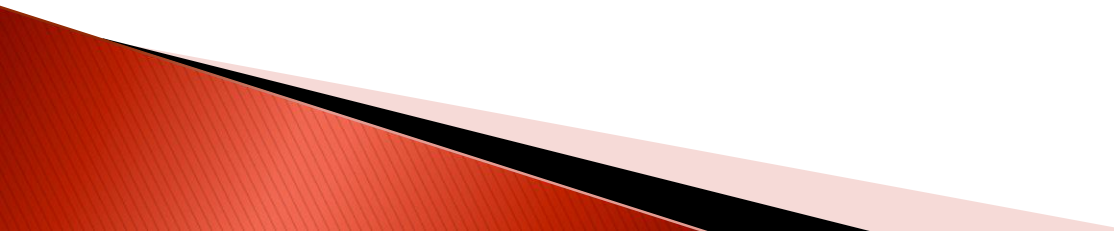
User Management, Policies, and Your Agency Subscription

- ▶ Adding users to your tenant
 - ▶ Managing user policies
 - ▶ Viewing your user account and subscription information
- 

Your User Account

- ▶ User account information
 - Email
 - Subscription status
 - Associated tenants
 - Change your password

Tenant User Management

- ▶ Add/remove users to/from the tenant
 - ▶ View online/offline status of users
 - ▶ Disable user accounts
 - ▶ Manage user policies
- 

PMED Policies

- ▶ A set of policies define the accessibility of a user account or group within the PMED system.
 - PMED currently provides 5 policies
 - EditPermission for Subscription
 - EditPermission for Library
 - EditPermission for Group
 - EditPermission for Workspace
 - EditPermission for User

Tenants – Takeaways

- ▶ Tenants are a group of users who share *common access* with *specific privileges* to the software instance.
- ▶ Tenants are usually 1:1 with an agency but in some cases, agencies may have multiple tenants.

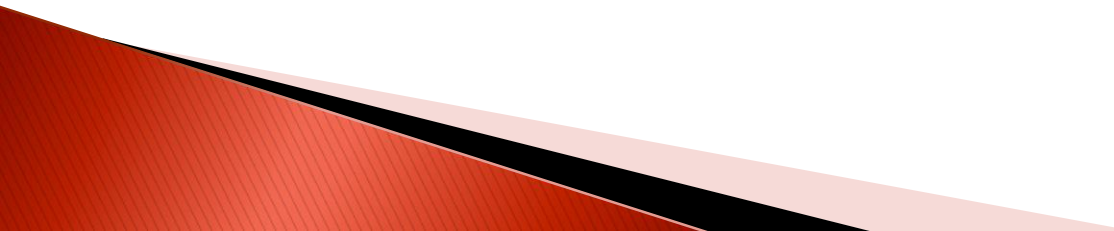
Workspace – Takeaways

- ▶ Workspaces represent the data (and UI) defined for a specific use case in your Tenant and are used to *organize your tenant users and libraries*.
- ▶ The workspace-based design UI customization feature in the app allows agencies to customize and simplify the design editor work process.
- ▶ Any user with the workspace editor policy assigned can manage workspaces and their customizable UI's.
- ▶ Workspaces are associated with **libraries** and **users**.
- ▶ Workspaces, libraries, and users form a working set which can be used to customize design workflow processes and data.

Libraries – Takeaways

- ▶ Libraries are used to group and manage data sets at your agency usually for a specific use-case
- ▶ Libraries are comprised of design **components** or **modules** and can be thought of as pieces of a design
- ▶ Libraries can be associated with one or more **workspaces**. Only **users** associated with those workspaces can use those libraries.
- ▶ *Creating a set of libraries for your users will simplify the design process for them.*
- ▶ Libraries are used to load default data into designs in the UI.

User Management – Takeaways

- ▶ Root administrators and other user accounts with the EditUsers policy granted can invite and manage users in the system.
 - ▶ It is the agency's responsibility to manage their user accounts in the system.
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FY 2023 Webinar #1; Data Management in PMED v3.0 – Tenants, Libraries, and Workspaces

Poll 2: Questions 3, 4, and 5



FY 2022 Webinar #4; The PMED Web Application: Part I – An Introduction

QUESTION AND ANSWER SESSION



We welcome comments & suggestions for future webinars; Send an email to pavementmedesign@ara.com.



Announcements

FY 2023 – Webinar Series, Remember:

- ▶ Q1 – Integration of NCHRP product 1-51 in version 3.0 and the recalibration of the rigid pavement models (September 13th, 2022).
- ▶ Q2 – TBA
- ▶ Q3 – TBA
- ▶ Q4 – TBA



Thank you for Attending the Webinar!

AASHTOWare Pavement ME-Design Contacts:

- Ryan Fragapane, AASHTO
rfragapane@ashto.org
Phone: (202) 624-3632
- Clark Morrison, NCDOT
cmorrison@ncdot.gov

ME Design Resource Website <http://www.me-design.com>

Pavement ME Design Users Group Contact:

- Jennifer Albert, FHWA
Jennifer.Albert@dot.gov

Help Desk, Customer Support, PREFERRED:

- Pavement ME Design Help Desk
pavementmedesign@ara.com
- Phone: (217) 356-4500

Other ARA Staff:

- Chad Becker
cbecker@ara.com
- Wouter Brink,
wbrink@ara.com
- Harold Von Quintus, P.E.
hvonquintus@ara.com

Phone: (217) 356-4500

