

WELCOME TO THE



WEBINAR SERIES

- This Webinar is being presented from a computer with a resolution of 1920 X 1080.
- Using a similar setting on your machine may improve your viewing experience.
- The webinar will start at 10:00 AM Central/11:00 AM Eastern



FY 2022 Webinar #4
The PMED Web Application:
Part I – An Introduction
June 22, 2022

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

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

- ▶ 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

The screenshot shows a webinar interface. At the top, there is a toolbar with icons for Audio, Mute Me, Participants, Chat (circled in red), Annotate, and Q&A. Below the toolbar, the title slide reads: "Jerry A. DiMaggio, PE, D.GE" and "Selection of Geo-material Properties for Infrastructure Features to Reduce Risk and Enhance Value". The slide features a collage of images related to infrastructure and geotechnical engineering. At the bottom left of the slide, it says "Date: March 25, 2020". At the bottom, there is a "Webinar Wednesdays" banner with the ARA logo.

The chat window is titled "Chat" and has a close button (X) in the top right corner. Below the title bar, there is a "Send to:" dropdown menu currently set to "Host". Below the dropdown is a text input field with a vertical scrollbar on the right side. To the right of the input field is a "Send" button.



Housekeeping Items

To ask a question

The screenshot shows a webinar interface. At the top, there is a navigation bar with icons for Audio, Mute Me, Participants, Chat, Annotate, and Q&A. The Q&A icon is circled in red, with an arrow pointing to a floating Q&A window on the right. This window has a title bar 'Q&A' and two tabs: 'All (0)' and 'My Q&A (0)'. Below the tabs is a text input field and two buttons: 'Send' and 'Send Privately...'. The main content area displays a presentation slide with the following text:

Jerry A. DiMaggio, PE, D.GE
Selection of Geo-material Properties for Infrastructure Features to Reduce Risk and Enhance Value

Below the slide is a collage of images related to infrastructure and geotechnical engineering. At the bottom left of the slide area, it says 'Date: March 25, 2020'. The bottom of the interface features a 'Webinar Wednesdays' logo and the ARA logo.



Housekeeping Items

To see presentation full screen

The screenshot shows a webinar interface. At the top, there is a navigation bar with the ARA logo, the text 'INNOVATIVE SOLUTIONS TO COMPLEX PROBLEMS', and a 'RETURN' button. Below this is a toolbar with icons for Audio, Mute Me, Participants, Chat, Annotate, and Q&A. The main content area displays a presentation slide with the following text:

Jerry A. DiMaggio, PE, D.GE
Selection of Geo-material Products for Infrastructure Features to Reduce Risk and Enhance Value

A 'View' dropdown menu is open, showing options: Manage Panels..., Ask to Control, Audio Conference..., Speaker/Microphone Audio Test..., View (highlighted), Session Info..., Audio & Video Statistics..., and Return to Session Window. A sub-menu for 'View' is also open, showing: Restore View, Fit in Viewer (selected), Fit to Width, 25%, 50%, 75%, 100%, 200%, and 400%.

Below the slide, there is a collage of images related to infrastructure and geotechnical engineering. The date 'Date: March 25, 2020' is displayed in the bottom left of the collage. At the bottom of the interface, there is a 'Webinar Wednesdays' banner with a calendar icon and the ARA logo.

FY 2022 Webinar #4 The PMED Web Application – An Introduction

Poll 1: Questions 1 and 2



1. How many individuals are viewing this webinar at your location?

1

2

3 to 5

More than 5

2. What is your affiliation?

State Government

Federal Government

Contractor/Association

Consultant

Academia



Prerequisites for this Webinar

No prerequisites are required.



The PMED Web Application Webinars

- ▶ Part I – An Introduction
- ▶ Part II – PMED v3.0, Tenants, Libraries, and Workspaces; Application of v3.0.
 - Planned for 1st Quarter of FY 2023



Part I – Learning Outcomes

1. Understand the registration process; How to sign up, and how to sign in.
2. Creating, uploading, and editing new and existing designs.
3. Saving, uploading, and downloading your design data.
4. Adding climate data to your design.
5. Running a design and accessing design outputs.
6. Introduction to tenants, libraries, and workspaces



FY 2022 – Webinar #4: The PMED Web Application: Part I – Webinar Outline

- ▶ Subscription, Registration, and sign in.
- ▶ Creating and working with designs.
- ▶ Tenants, libraries, and workspaces.
- ▶ PMED vNext (FY23 – planned enhancements)
- ▶ Question and answer session.



Introduction Statement

- ▶ <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.



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.

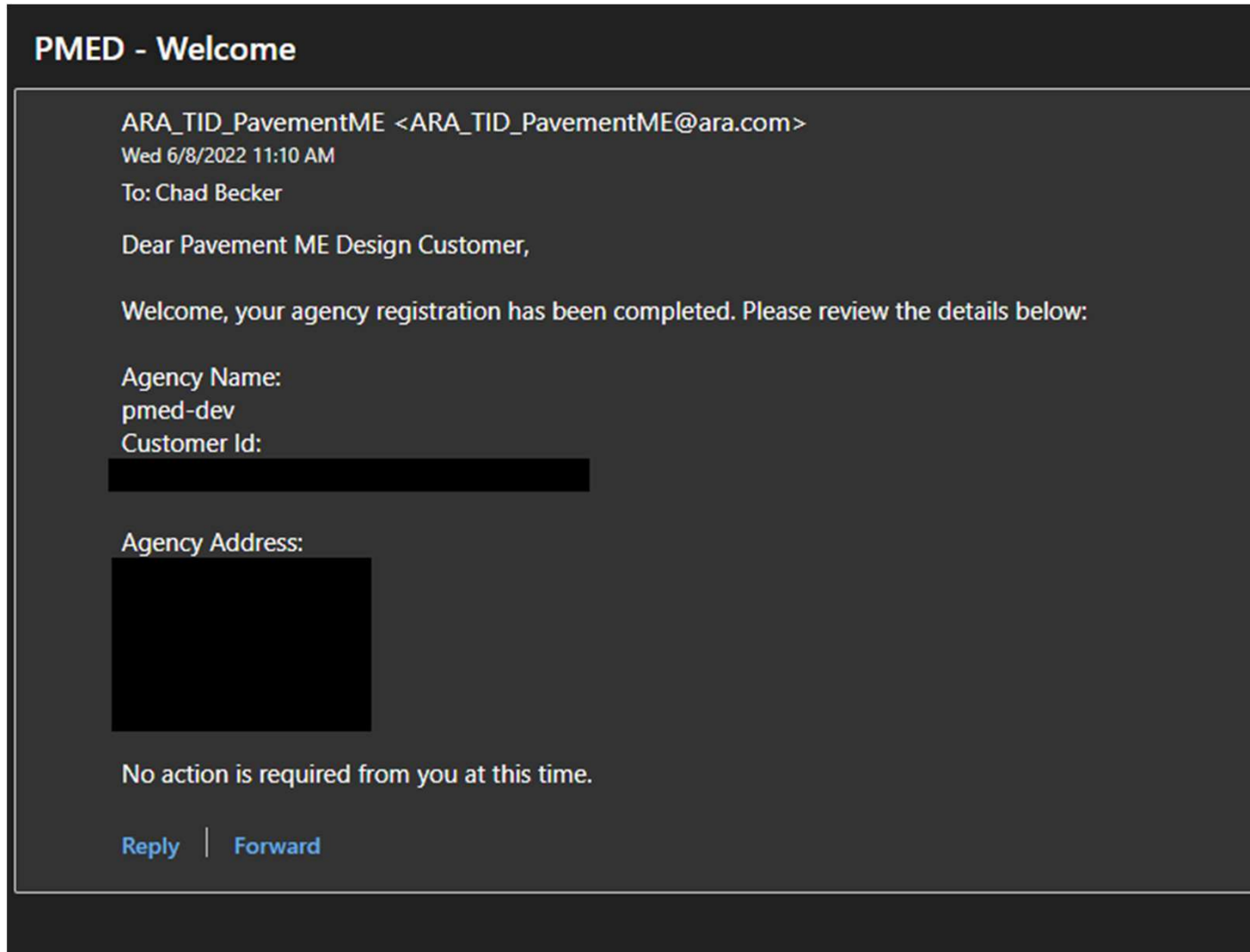


Subscription Clarifications

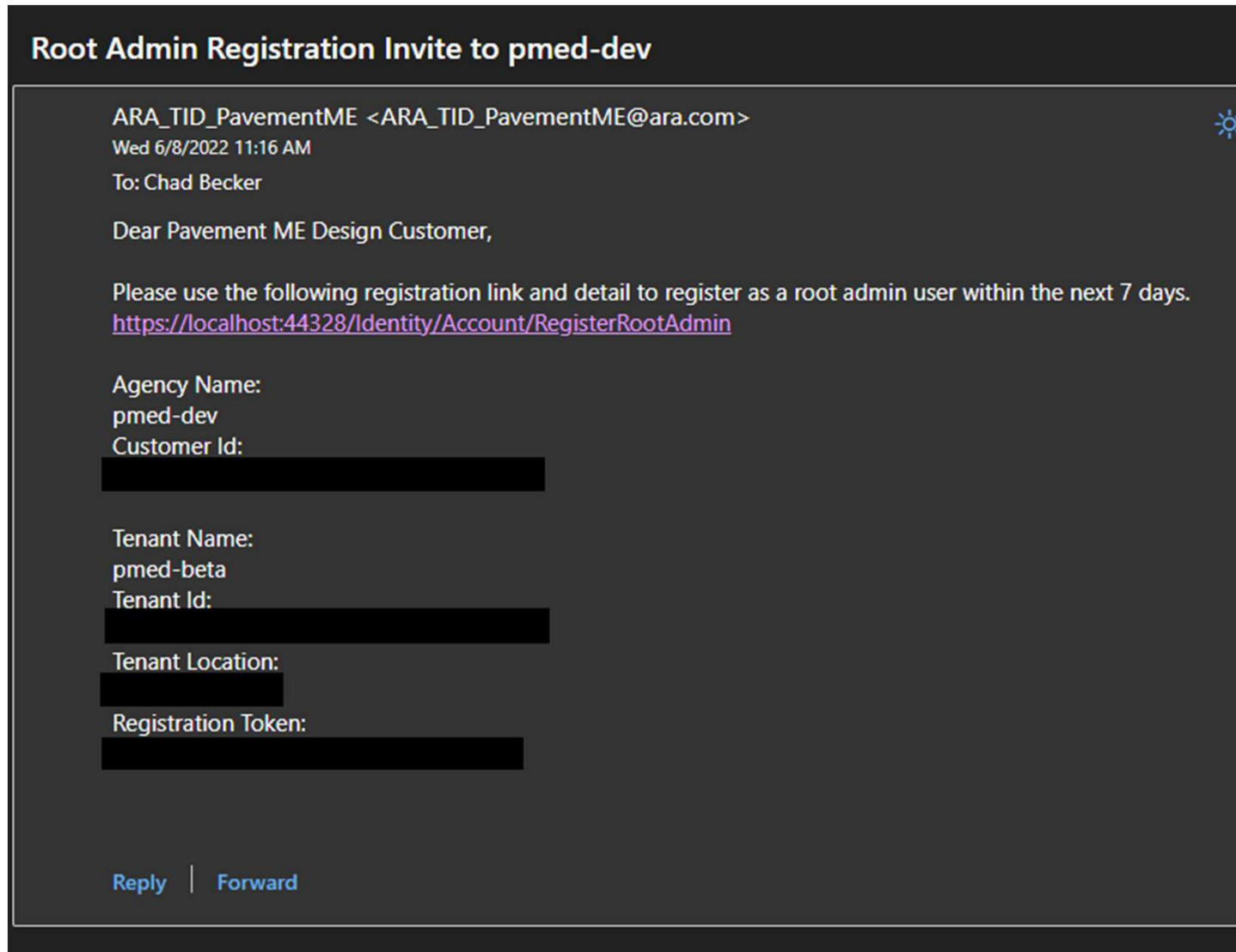
- ▶ Purchasing and Access
- ▶ Subscription vs. Desktop
- ▶ V3.0 vs. v2.6.2
 - APADS runtime improvements
 - NCHRP 1–51 only in v3.0.0.
 - V3.0 includes rigid recalibration v2.6.2 does not



Registration – Confirmation Email



Registration – Root Administrator Email



Registration – Root Administrator Sign Up

The screenshot shows a registration form for the AASHTO Pavement ME Design software. At the top, there is a header with the Pvd logo and the text 'AASHTOWare Pavement ME Design' and 'AASHIO For state-of-the-art pavement design'. Below the header, there are two tabs: 'SIGN IN' and 'SIGN UP', with 'SIGN UP' being the active tab. The form contains several input fields: 'Email', 'Name', 'Customer ID', 'Tenant ID', 'Registration Token', 'Password', and 'Confirm Password'. At the bottom of the form, there is a checkbox labeled 'I'm not a robot' next to a reCAPTCHA logo and the text 'reCAPTCHA Privacy - Terms'. A yellow 'Sign Up' button is located at the bottom of the form.



Registration – Email Confirmation

Confirm your email

ARA_TID_PavementME <ARA_TID_PavementME@ara.com>

Wed 6/8/2022 11:21 AM

To: Chad Becker

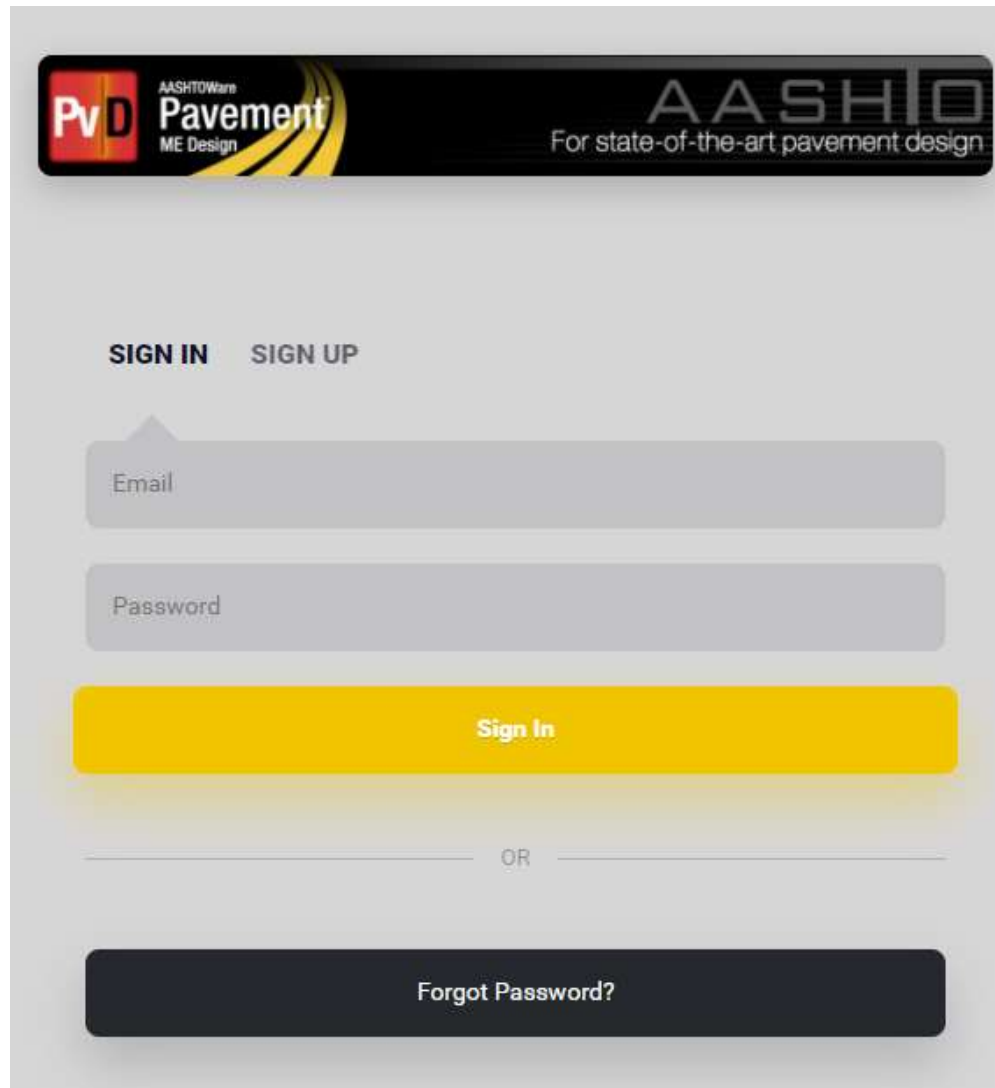
Please confirm your account by [clicking here](#).

[Reply](#)

[Forward](#)



Signing In



The image shows a web interface for signing in to AASHTOWare Pavement ME Design. At the top, there is a header with the PVD logo (AASHTOWare Pavement ME Design) on the left and the AASHIO logo (For state-of-the-art pavement design) on the right. Below the header, there are two links: "SIGN IN" and "SIGN UP". The "SIGN IN" link is active. Below the links, there are two input fields: "Email" and "Password". Below the input fields, there is a yellow "Sign In" button. Below the button, there is a horizontal line with "OR" in the center. Below the line, there is a dark grey button labeled "Forgot Password?".

PvD AASHTOWare Pavement ME Design

AASHIO
For state-of-the-art pavement design

SIGN IN SIGN UP

Email

Password

Sign In

OR

Forgot Password?



Signing In – Wrapping Up

The screenshot displays the user interface for Pavement ME Design. On the left is a dark grey sidebar with navigation options: Home, Designs, Batches, Design Comparison, Selected Workspace, and Tenants. The main content area has a dark header with the 'PvD AASHTOWare Pavement ME Design' logo and a close button. Below the header are three tabs: 'Design Workspace' (highlighted in orange), 'Running Designs', and 'Completed Designs'. Two yellow buttons, 'Create New Design' and 'Upload Design', are positioned below the tabs. A search box with the placeholder text 'Search' and a dropdown arrow is shown, with a 'Designs' option selected in the dropdown menu.




Signing In – Subscription Associations

User Account Management

User Email	Default Tenant	Current Session Tenant
cbecker@ara.com	pmed-beta-testers-ARA	pmed-beta-testers-ARA

Associated Tenants	Tenant Id	Agency	Default	Current Session	Site URL	Navigate
pmed-beta-testers-ARA	[REDACTED]	pmed-beta-testers-ARA	Default	Current Tenant	https://pavementmedesign.com/MEDesign	Current Host
pmed-beta-testers-TRT-tenant-2	[REDACTED]	pmed-beta-testers-TRT	Set as default	Set for current session	https://pavementmedesign.com/MEDesign	Current Host
pmed-beta-testers-TRT-tenant-1	[REDACTED]	pmed-beta-testers-TRT	Set as default	Set for current session	https://pavementmedesign.com/MEDesign	Current Host


Subscription Name	Subscription Id	Agency	Default	Current Session	Total Seats	Occupied Seats 	Expiration Date
PMED Enterprise	[REDACTED]	pmed-beta-testers-ARA	Default	Current seat	14	1	7/1/2022 (Active)

Change Password

Old Password

New Password

Confirm Password

 Update



Signing In – Subscription Associations

The screenshot displays the Pavement ME Design software interface. The top navigation bar includes the Pvd AASHTOWare Pavement ME Design logo and the title 'Pavement ME Design'. The left sidebar contains a menu with items: Home, Designs, Batches, Design Comparison, Selected Workspace, and Tenants. A secondary menu lists: Workspaces, Default Libraries, Design Templates, Users, Group Policies, Subscriptions, and Tenant Information. The main content area is titled 'pmed-beta-testers-ARA - cbecker@ara.com Policies' and features two buttons: 'Edit Groups and Policies' and 'Edit Subscriptions'. Below these is an 'Add New' button. A table lists subscription details:

Subscription Id	Subscription Module Name	Total Seats	Expiration Date	Action
[REDACTED]	PMED Enterprise	14	7/1/2022	[Delete Icon]

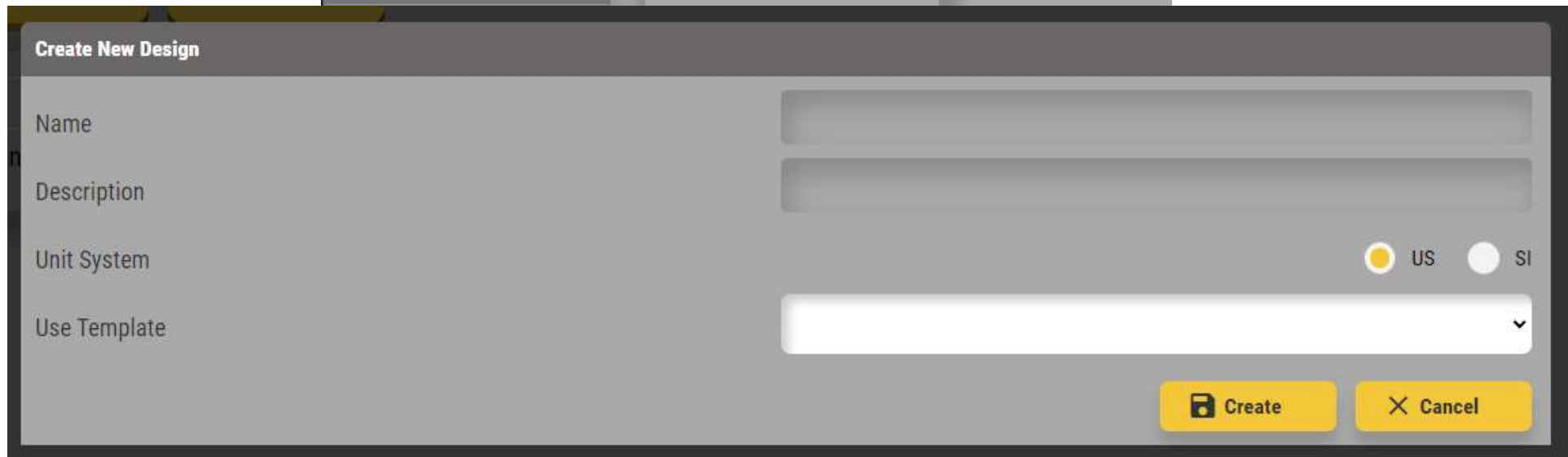
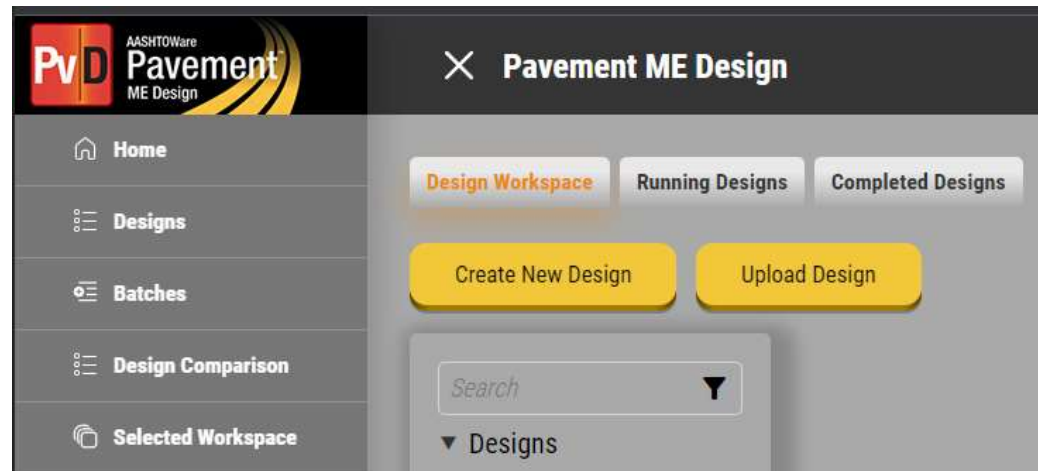


FY 2022 – Webinar #4: The PMED Web Application: Part I – Webinar Outline

- ▶ Subscription, Registration, and sign in.
- ▶ Creating and working with designs.
- ▶ Tenants, libraries, and workspaces.
- ▶ PMED vNext (FY23 – planned enhancements)
- ▶ Question and answer session.



Creating a New Design



Viewing a Created Design



× Pavement ME Design

Home

Designs

Batches

Design Comparison

Selected Workspace

Tenants

Design Workspace

Running Designs

Completed Designs

Create New Design

Upload Design

Search

▼ Designs

webinar-test-new-flexible



PMED Design Data – Key Points

- ▶ PMED design data is *ephemeral*, or session based only. We do not store your design data on the server. Save early and save often when working on designs.
- ▶ PMED design run results are kept on the server for *5 days only*. Please download your results when they are ready.



Viewing a Created Design

The screenshot displays the user interface for Pavement ME Design. On the left is a dark sidebar with navigation options: Home, Designs, Batches, Design Comparison, Selected Workspace, and Tenants. The main content area has a header with the 'PvD AASHTOWare Pavement ME Design' logo and a close button. Below the header are three tabs: 'Design Workspace' (highlighted), 'Running Designs', and 'Completed Designs'. Two yellow buttons, 'Create New Design' and 'Upload Design', are positioned below the tabs. A search bar with the placeholder text 'Search' and a dropdown arrow is located above a list of designs. The list shows one design named 'webinar-test-new-flexible' on a yellow background. To the right of the design name are several icons: a pencil (edit), an exclamation mark (warning), a document with a pencil (save), a document (copy), a trash can (delete), and a plus sign (add).



Editing a Design – General Information and Structure

The screenshot displays the 'Pavement ME Design' software interface. The top navigation bar includes the 'PvD AASHTOWare Pavement ME Design' logo on the left and a notification bell with a '6' badge and a user profile icon on the right. The main interface is divided into a left sidebar and a central content area. The sidebar contains a 'Home' button and a list of design-related options: 'Designs', 'Batches', 'Design Comparison', 'Selected Workspace', and 'Tenants'. The central content area is titled 'Pavement ME Design' and features a 'General Information' tab. This tab contains several input fields: 'Design Name' (text input with 'webinar-demo-new-flexible'), 'Design Type' (dropdown menu), 'Pavement Type' (dropdown menu), 'Design Life in Years' (text input with '20'), 'Pavement Construction Date' (calendar picker with 'June 2024'), and 'Traffic Opening Date' (calendar picker with 'September 2024'). A checkbox for 'Use Special Traffic' is also present. A 'SAVE' button is located in the bottom right corner of the interface.

PvD AASHTOWare Pavement ME Design

× Pavement ME Design

Home

Designs

Batches

Design Comparison

Selected Workspace

Tenants

General Information

Traffic

Climate

Structure

Maintenance Strategy

Sensitivity Combination

Thickness Optimization

Design Name: webinar-demo-new-flexible

Design Type: [Dropdown]

Pavement Type: [Dropdown]

Design Life in Years: 20

Please select a design strategy in order to set the base or existing construction date.

Pavement Construction Date: June 2024

Traffic Opening Date: September 2024

Use Special Traffic: [Checkbox]

SAVE



Editing a Design – Climate Data

General Information

Performance Criteria

Traffic

Climate

Structure

Maintenance Strategy

Calibration

Design Properties

Sensitivity Combination

Thickness Optimization

Go to validation error

Climate Station ● Depth of Water Table Monthly Temperatures Identifiers Climate Summary Hourly Climate Data

Correct for elevation at design location?

Map Satellite

Search

Retrieve climate data

Upload climate data (HCD)

Show more markers

Show fewer markers

Data Point Name: US, IL, MERRA_ID_143572 (143572) Elevation (ft): 675.68 Latitude (decimal degrees): 39.5 Longitude (decimal degrees): -88.125

SAVE

Editing a Design – Other Components

- General Information
- Performance Criteria
- Traffic
- Climate
- Structure
- Maintenance Strategy
- Calibration
- Design Properties
- Sensitivity Combination
- Thickness Optimization
- Go to validation error

Performance Criteria			Limit	Reliability	Report Visibility
AC thermal cracking (ft/mi)			1000	90	<input checked="" type="checkbox"/>

AADTT
Traffic Capacity
Axle Configuration
Lateral Wander
Wheelbase
Identifiers
Vehicle Class Distribution
Monthly Adjustment Factor
Axes Per Truck
Axle Distribution

Axle Distribution

Axes	Month	Vehicle Class
Single	January	4
Tandem	February	5
Tridem	March	6
Quad	April	7
	May	8
	June	9
	July	10
	August	11
	September	12
	October	13
	November	
	December	

Validate Axle Distribution

Month	Vehicle Class	Total	3000	4000	5000	6000	7000	8000
January	4	100	1.8	0.96	2.91	3.99	6.8	11.47

... SAVE

Saving a Design

The image shows a software interface with a 'Save As' dialog box open over a design configuration screen. The dialog box is titled 'Save As' and shows the file 'webinar_test.dgp' on the Desktop. The file name is 'webinar_test.dgpx' and the save type is 'AASHTOWare PMED Design (*.dgpx;*.xml)'. The design configuration screen has a sidebar with 'Design Properties', 'Sensitivity Combination', 'Thickness Optimization', and 'Run analysis'. The main area shows fields for 'Base Construction Date' (May 2023), 'Pavement Construction Date' (June 2024), 'Traffic Opening Date' (September 2024), and 'Use Special Traffic' (checkbox). A 'SAVE' button is visible in the bottom right corner of the design configuration area.

Save As

This PC > Desktop

Search Desktop

Organize New folder

templates

OneDrive - Applie

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

OSDisk (C:)

Network

webinar_test.dgp

File name: webinar_test.dgpx

Save as type: AASHTOWare PMED Design (*.dgpx;*.xml)

Save Cancel

Design Properties

Sensitivity Combination

Thickness Optimization

Run analysis

Base Construction Date

Pavement Construction Date

Traffic Opening Date

Use Special Traffic

webinar_test

New Pavement

Flexible Pavement

3

May 2023

June 2024

September 2024

SAVE

PMED UI v1.0.0.0

Design Errors/Warnings - Design Status: Error(0) Warning(0) Info;



Uploading a Design

The screenshot displays the Pavement ME Design software interface. On the left is a navigation sidebar with options: Home, Designs, Batches, Design Comparison, Selected Workspace, and Tenants. The main workspace has a top bar with the title 'Pavement ME Design' and a close button. Below the title bar are three tabs: 'Design Workspace' (active), 'Running Designs', and 'Completed Designs'. Two yellow buttons are visible: 'Create New Design' and 'Upload Design'. A file explorer window is open, showing the 'Desktop' directory. The file explorer contains two files: 'pmed-screenshots' (a folder) and 'webinar_test.dgp' (a file). The file explorer's 'File name' field is empty, and the file type is set to 'AASHTOWare PMED Design (*.dgp)'. The 'Open' button is visible. In the bottom right corner, there is a logo for 'PvD AASHTOWare Pavement ME Design' with 'AASHTO' written below it.

Running a Design

The screenshot displays the 'Pavement ME Design' software interface. On the left is a navigation sidebar with the following menu items: Home, Designs, Batches, Design Comparison, Selected Workspace, Tenants, General Information, Performance Criteria, Traffic, Climate, Structure, Maintenance Strategy, Calibration, Design Properties, Sensitivity Combination, Thickness Optimization, and Run analysis (highlighted with a blue underline). The main workspace shows the 'Run analysis' step, with the following configuration details:

Field	Value
Design Name	webinar_test
Design Type	New Pavement
Pavement Type	Flexible Pavement
Design Life in Years	3
Base Construction Date	May 2023
Pavement Construction Date	June 2024
Traffic Opening Date	September 2024
Use Special Traffic	<input type="checkbox"/>



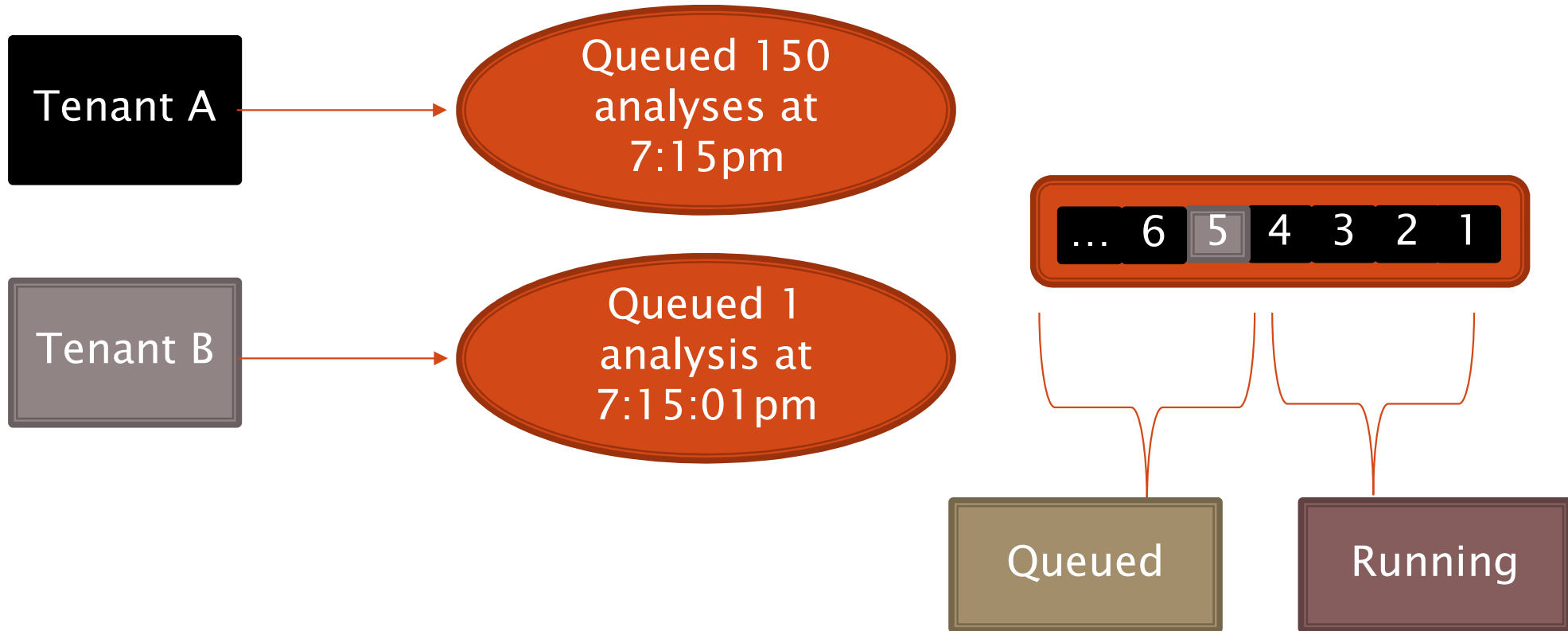
Completed Designs and Downloading Results

The screenshot shows a web browser window with the URL `localhost:44390/designs`. The browser's taskbar includes several open tabs: Work, Dev Stuff, Temp, CSS, Learner Home - Re..., Scientific Reference..., Login - Powered by..., and Earthdawn Stuff. The application interface features a sidebar on the left with navigation options: Home, Designs, Batches, Design Comparison, Selected Workspace, and Tenants. The main content area is titled "Pavement ME Design" and contains three tabs: Design Workspace, Running Designs, and Completed Designs. The "Completed Designs" tab is active, displaying a search bar and a results section. The results section shows a single entry for "webinar_test" with a timestamp of "17-6-2022: 06:06PM". Below the entry are three download options: ZIP, DOCX, and XLSX, along with a trash icon.

Design Name	Timestamp	Download Options	Actions
webinar_test	17-6-2022: 06:06PM	ZIP, DOCX, XLSX	Trash



The PMED Multi-Tenant Fair Queue



Batch Mode

The screenshot displays the Pavement ME Design software interface. On the left is a dark sidebar with navigation options: Home, Designs, Batches, Design Comparison, Selected Workspace, and Tenants. The main header shows the 'PvD AASHTOWare Pavement ME Design' logo and a close button for the 'Pavement ME Design' window. A yellow 'Create Batch' button is located at the top of the main content area. Below it is a search bar and a 'Batches' section. A yellow card displays details for a batch named 'test_batch', including its description 'batch_webinar' and a list of 'Batch Designs' with their IDs. An 'Add Designs' button is at the bottom of the card.

PvD AASHTOWare Pavement ME Design

Home
Designs
Batches
Design Comparison
Selected Workspace
Tenants

✕ Pavement ME Design

+ Create Batch

Search

▼ Batches

test_batch

Name test_batch

Description batch_webinar

Batch Designs

- webinar_test (id 42d93879-abee-46be-a7c4-fd08dff75a00)
- webinar_test_2 (id 4f311b1f-240b-4799-9141-5aa6d15b1c68)

+ Add Designs



Running a Batch of Designs

The screenshot displays the Pavement ME Design software interface. On the left is a navigation sidebar with the following menu items: Home, Designs, Batches, Design Comparison, Selected Workspace, and Tenants. The main header area shows the 'Pavement ME Design' title and three tabs: 'Design Workspace', 'Running Designs' (which is highlighted), and 'Completed Designs'. Below the tabs is a search bar and a '▼ Analyses' dropdown. The main content area shows a yellow panel for a batch analysis named 'test_batch (Batch Analysis)'. It features a progress bar at 19% Complete and a table of analysis information.

Analysis Information	
Analysis status	Running
Analysis started	18-6-2022: 09:11 AM
Analysis runtime	N/A

Below the table, there are two smaller analysis items: 'webinar_test_2' and 'webinar_test', each with a progress bar and a timer icon.

Viewing Batch Outputs

Name	Type	Compressed size	Password ...	Size
webinar_test	File folder			
webinar_test_2	File folder			
webinar_test.dgpx	DGPX File	2,914 KB	No	
webinar_test_2.dgpx	DGPX File	2,914 KB	No	

Design Comparison Utility

Select Base Design

Search

webinar_test

webinar_test_2

Select Designs to Compare to webinar_test

Search

webinar_test_2

Filter Results

Upload Filter Settings Download Filter Settings

Search

MEDesignProject Expand

Compare Clear Comparison Show All Results

Showing 9 of 9 results

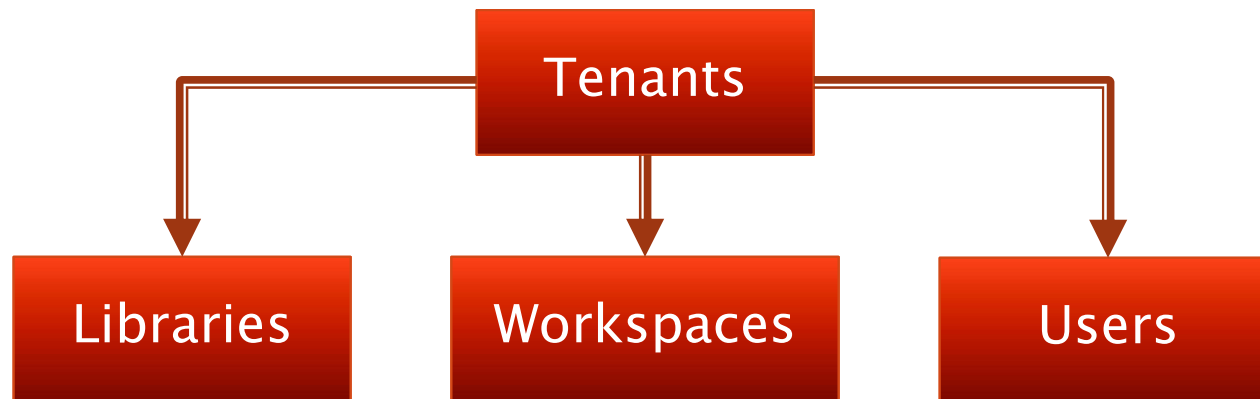
Object	Property	Value in webinar_test	Value in webinar_test_2 (0)	Comparison Message
ClimateData	MemberProject	Null	Null	COMPARE_NULL_OBJECT_WARNING
ClimateData	Project	Null	Null	COMPARE_NULL_OBJECT_WARNING
ClimateData	Instance	Null	Null	COMPARE_NULL_OBJECT_WARNING
JPCPObject	approverDate	6/18/2022 9:26:26 AM	6/18/2022 9:26:27 AM	COMPARE_NOT_EQUAL_WARNING
JPCPObject	authorDate	6/18/2022 9:26:26 AM	6/18/2022 9:26:27 AM	COMPARE_NOT_EQUAL_WARNING
CRCPObject	approverDate	6/18/2022 9:26:26 AM	6/18/2022 9:26:27 AM	COMPARE_NOT_EQUAL_WARNING
CRCPObject	authorDate	6/18/2022 9:26:26 AM	6/18/2022 9:26:27 AM	COMPARE_NOT_EQUAL_WARNING
DesignProject	createDate	6/18/2022 9:26:26 AM	6/18/2022 9:26:27 AM	COMPARE_NOT_EQUAL_WARNING
DesignProject	displayName	webinar_test	webinar_test_2	COMPARE_NOT_EQUAL_WARNING

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- ▶ Subscription, Registration, and sign in.
- ▶ Creating and working with designs.
- ▶ Tenants, libraries, and workspaces.
- ▶ PMED vNext (FY23 – planned enhancements)
- ▶ Question and answer session.



Tenants, Libraries, Workspaces, and Users



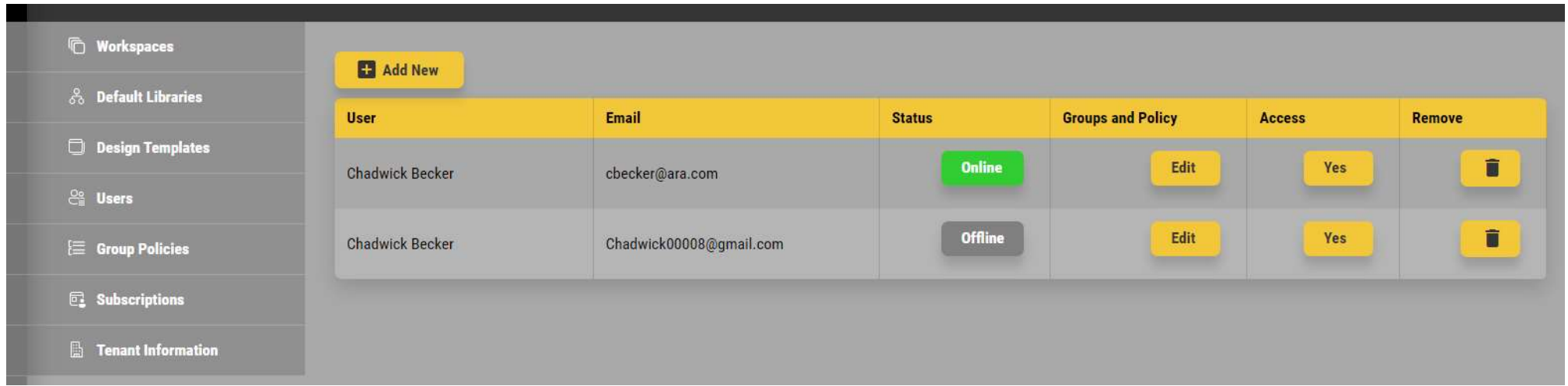
- ▶ **Tenants** – A group of users who share *common access* with *specific privileges* to the software instance.
- ▶ **Libraries** – Define the data you want to re-use in your Tenant.
- ▶ **Workspaces** – Are the data (and UI) defined for a specific use case in your Tenant.
- ▶ **Users** – Define who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

Tenants and Users

Tenant	GUID
local-dev-tenant	[REDACTED]

- ▶ Customers (agencies) may have multiple tenants (though this is not common)
 - Ex: A customer has a tenant in the multi-tenant cloud and another as a single tenant hosted service.
 - Ex: A customer has a user which belongs to a consulting agency tenant and to a DOT tenant.
- ▶ The tenant you utilize governs the workspaces and libraries you will have access to as a user.

User Management

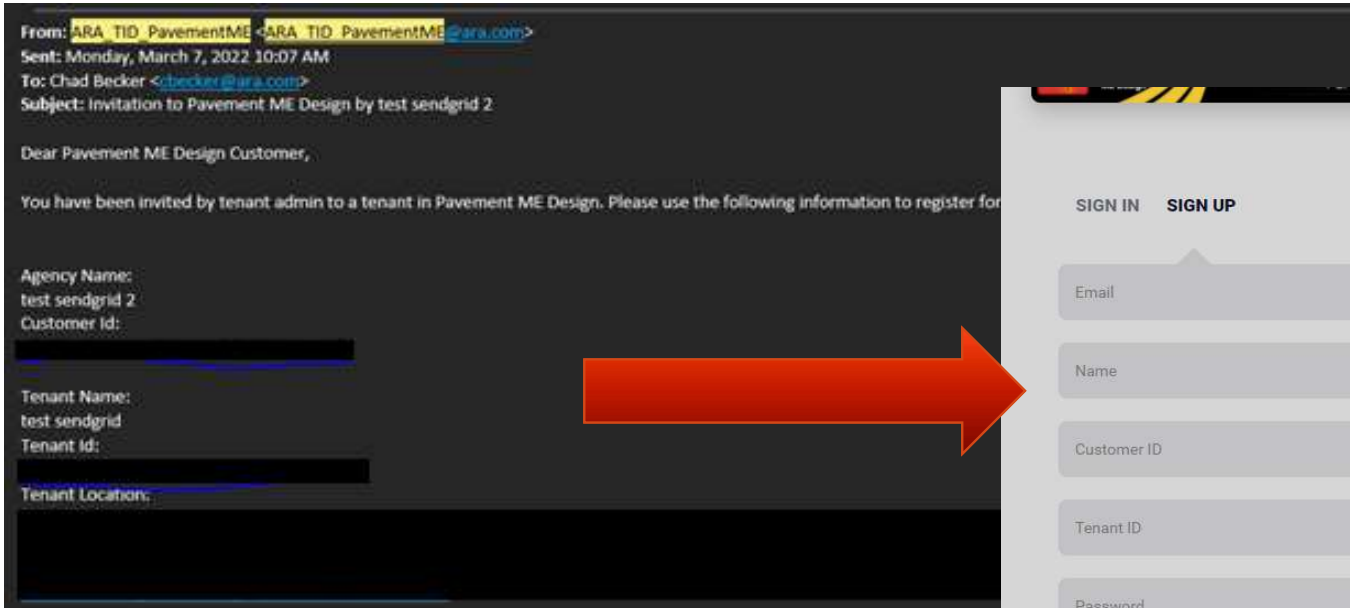


The screenshot displays a user management interface. On the left is a sidebar with navigation options: Workspaces, Default Libraries, Design Templates, Users, Group Policies, Subscriptions, and Tenant Information. The main area features a '+ Add New' button and a table of users.

User	Email	Status	Groups and Policy	Access	Remove
Chadwick Becker	cbecker@ara.com	Online	Edit	Yes	
Chadwick Becker	Chadwick00008@gmail.com	Offline	Edit	Yes	

- ▶ The root admin and any user or group designated by the root admin will have access to the user management page.
 - Check user status (online/offline)
 - Edit groups/policies available for users
 - Disable account access
 - Add/Remove users

Adding a New User



SIGN IN SIGN UP

Email

Name


Customer ID

Tenant ID

Password

Confirm Password

I agree to the [Terms of Use](#) and [Privacy Policy](#)

I'm not a robot  reCAPTCHA
Privacy - Terms

Sign Up

OR









Forgot Password?



Workspaces

local-dev-tenant - Workspaces

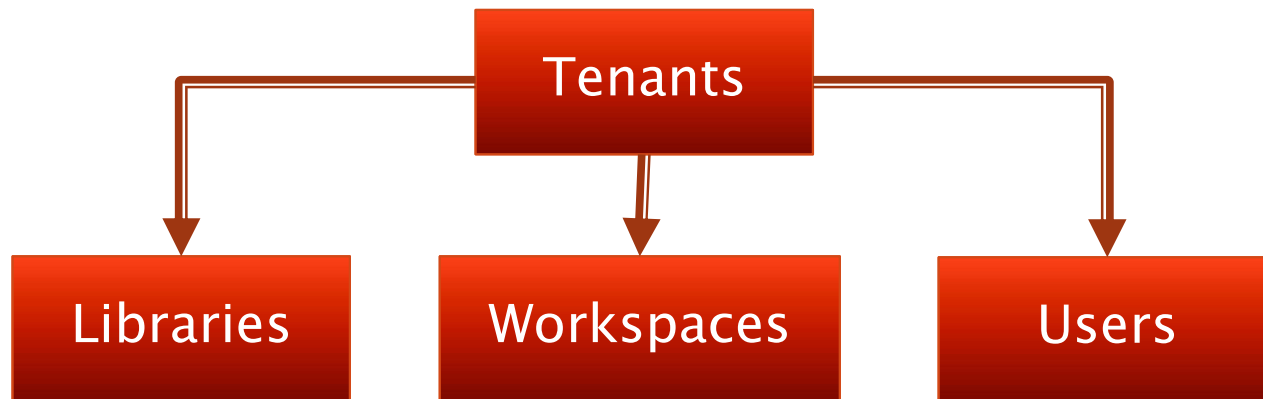
[+ Add New](#)

Workspace name	Default user workspace	Active	Associated Users	
local-default 	Set as Default	Active	1	 
System Default Workspace 	Set as Default	Active	2	 
local-default 	Set as Default	Active	0	 

- ▶ Workspaces define default data groups and UI configurations for all analysis inputs.
- ▶ Workspaces can pair with 1 or more libraries and users can access 1 or more workspaces.
- ▶ All users always have access to the system workspace and are assigned to this workspace by default.
- ▶ The system workspace may not be modified.
- ▶ Users have access to 1 or more workspaces and can set a default workspace for quick access.

Workspace Extras

- ▶ Workspaces can have associated libraries, which gives users access to those libraries when working with designs.
- ▶ Users logging into a workspace automatically get the workspace library default value data and UI configuration when creating new designs.



Libraries

- ▶ Libraries store data you want to re-use in your designs.
 - Traffic, Materials, Calibration factors, etc.
 - There are two types of libraries (1) component libraries and (2) material libraries
 - Libraries are paired with workspaces, making them importable into your designs and allowing assignment

local-dev-tenant - All Libraries

+ Add New

Library Name	Available Modules	Associated Workspace(s)	
INDOT_ALL 	Performance Criteria Traffic Climate Structure Calibration Design Properties	0	

local-dev-tenant - Material Libraries

+ Add New

No Data Available

Design Templates

- ▶ Design templates are a special kind of library that takes an entire design and allows you to use its property data as defaults when creating a new design.
- ▶ Design templates can be created from the Libraries action menu item under Tenants.

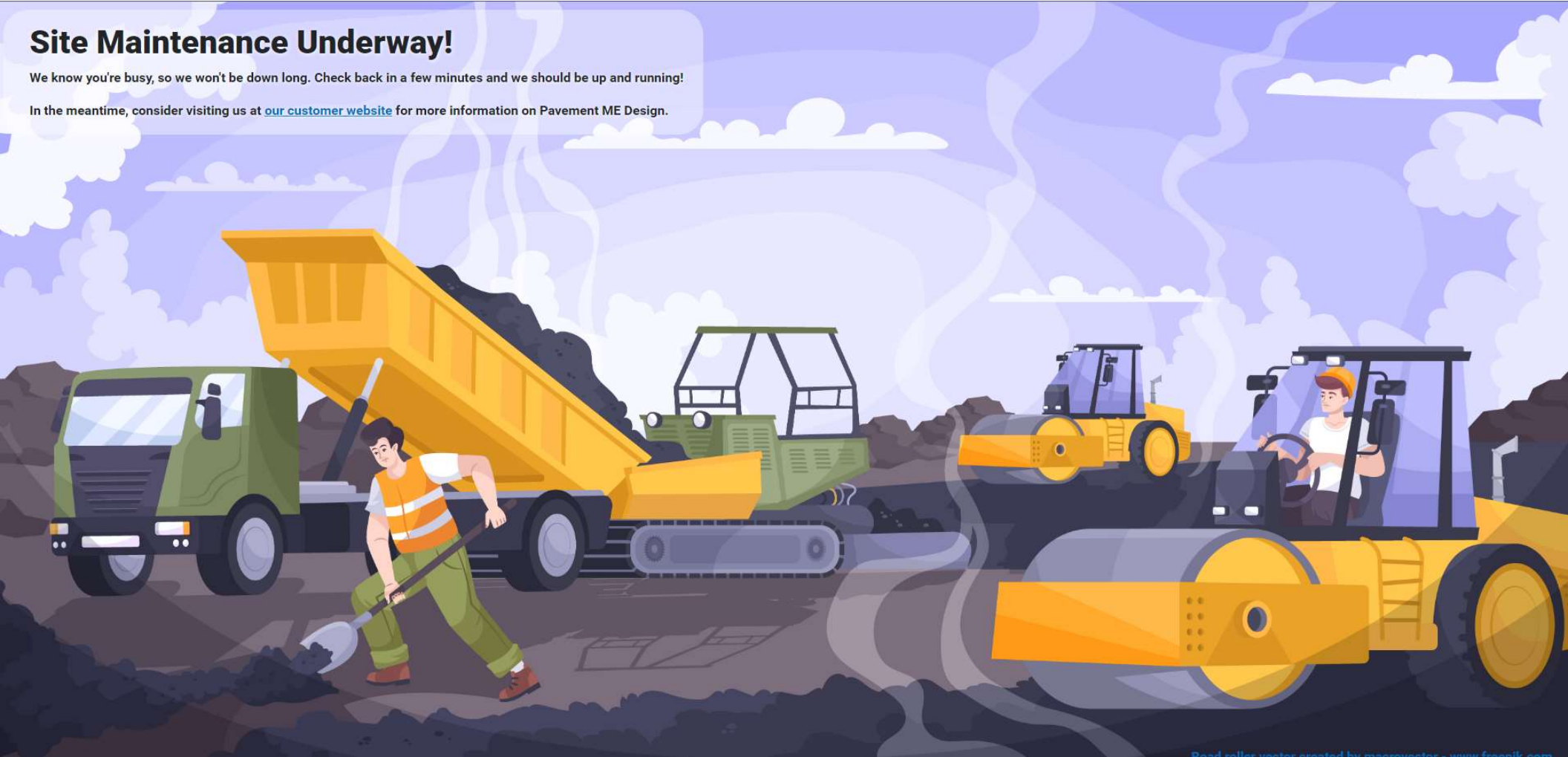


Site Maintenance

Site Maintenance Underway!

We know you're busy, so we won't be down long. Check back in a few minutes and we should be up and running!

In the meantime, consider visiting us at [our customer website](#) for more information on Pavement ME Design.



Road roller vector created by maxmumster - www.freepik.com



FY 2022 – Webinar #4: The PMED Web Application: Part I – Webinar Outline

- ▶ Subscription, Registration, and sign in.
- ▶ Creating and working with designs.
- ▶ Tenants, libraries, and workspaces.
- ▶ PMED vNext (FY23 – planned enhancements)
- ▶ Question and answer session.



So What's Next?

- ▶ We have a *lot* of exciting enhancements coming in FY23. Here is a sneak peek.
 - Custom Validators (user defined validation tools)
 - Include the standard deviation of the IRI (initial value and predicted IRI) as an input to the software
 - Include ESALS in the output report
 - Real-time dynamic modulus master curve plot in the UI
 - Include creep compliance master curve fit results and plot in real time in the UI
 - Include traffic module outputs in UI
 - Report customization tools
 - User defined “Identifier” fields
 - EICM output caching for design runs (performance improvement; FY24)
- ▶ BcT web application
- ▶ Refactoring JULEA for performance improvements



Summary and Takeaways

- ▶ **PMED v3.0 and v2.6.2**
 - PMED v3.0
 - NCHRP 1–51 integration
 - Updated calibration for rigid designs
 - SaaS web application with tenants, libraries, and workspaces
 - Both versions have an updated APADS performance improvement of 4x for faster flexible design runs.



Summary and Takeaways

- ▶ V3.0 offers all of the capabilities of the desktop application as a web service and provides a faster easier to use experience for agencies.
 - No installation required
 - Allows agencies to create and manage their libraries locally or in the cloud.
 - More performant, server-based analysis runs



Summary and Takeaways

- ▶ In this webinar we have demonstrated:
 1. How to register your SaaS PMED account and how to add/manage your users for your agency.
 2. How to create, upload, edit and work with designs and design components including:
 - a) Traffic, climate, performance criteria, structure, materials, calibration factors, and design specific properties.
 3. How to run, view progress, and download the results of a design run.



Summary and Takeaways

- ▶ In this webinar we have demonstrated:
 1. How to save and manage design data
 2. Introduced the concepts of tenants, libraries, and workspaces
 3. Introduced concepts for utilizing libraries and workspaces to manage agency library data.
 4. Reviewed update processes for the PMED SaaS server and scheduled maintenance procedures.
 5. Discussed how multiple versions in the system are managed



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

Poll 2: Questions 3, 4 and 5



3. Will you use PMED web application (v3.0) in FY23 for any purpose (official designs/exploratory/comparison/etc.)?

Yes

No

4. Will you use the PMED desktop application (any prior version \leq v2.6.2)?

Yes

No

N/A

I will use both the desktop application and the web application



5. How valuable was this webinar to you?

- Highly valuable
- Moderately valuable
- Little value.
- No value.



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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:

- ▶ Webinar #1: PMED v3.0 – Tenants, Libraries, and Workspaces; Date TBA.
- ▶ Webinar #2: Integration of NCHRP 1-51 Product and Recalibration of the Rigid Pavement Transfer Functions; Date TBA.



Thank you for Attending the Webinar!

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