

# Transportation Asset Management Webinar Series

Webinar 60

## **TAM and Resilience Building: Takeaways from the TAM Peer Exchange**

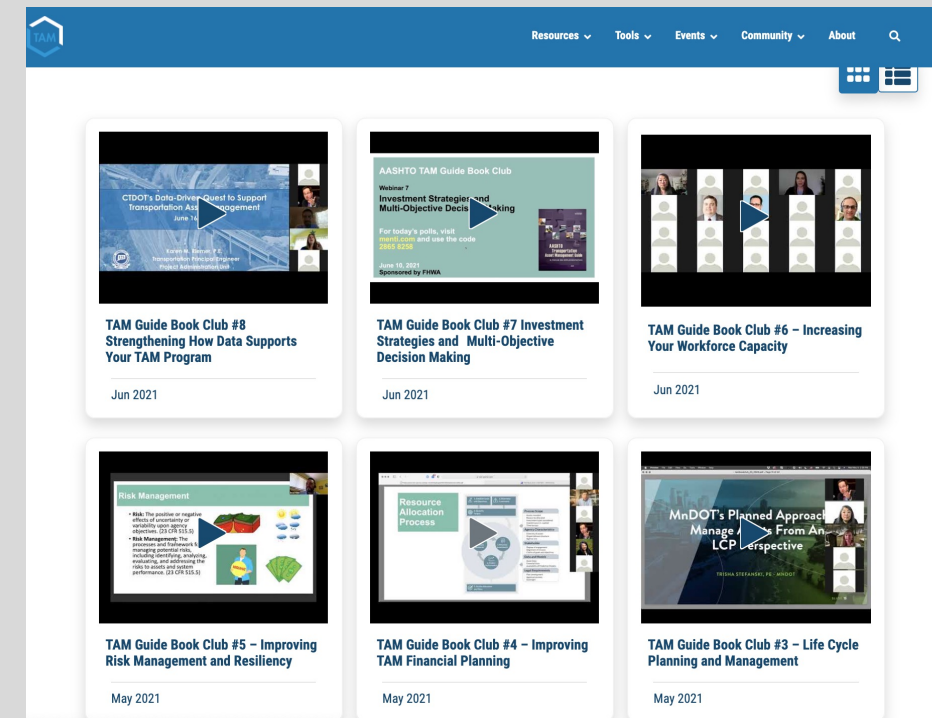
Sponsored by FHWA and AASHTO



**December 21, 2022**

# FHWA/AASHTO Asset Management Webinar Series

- This is the 60th webinar in a series that has been running since 2012
- Webinars are held every two months, on topics such as off-system assets, asset management plans, asset management and risk management, and more
  - 3rd Wednesdays, 2PM Eastern
- We welcome ideas for future webinar topics and presentations
- Submit your questions using the webinar's Q&A feature



# Welcome

---

FHWA and the AASHTO Sub-Committee on Asset Management are pleased to sponsor this webinar series

- Sharing knowledge is a critical component of advancing asset management practice

# Webinar Objectives

---

- Raise awareness of the recent TAM Peer Exchange on resiliency building and TAM programs that was held at the end of the AASHTO TPM, Planning, and Data Conference
- Understand some of the approaches agencies are taking to resiliency building that was shared at the peer exchange
- To have a dialogue with presenters from the peer exchange

# Webinar Agenda

---

**2:00** Welcome and Introduction

**2:10** FHWA Introduction and Overview

**2:20** Questions Summary from the Peer Exchange

**2:35** Panel Discussion from Peer Exchange Presenters

- William Johnson, Colorado DOT
- Mike Johnson, Caltrans
- Matt Haubrich, Iowa DOT

**3:25** Wrap Up

Matt Hardy

Peer Exchange

# **FHWA & AASHTO**

# **Asset Management Peer Exchange – TAM and Resiliency Building**

December 8 - 9, 2022

Providence, Rhode Island

# Peer Exchange Purpose

1. Advance the state of TAM practice, including lessons learned
2. Discuss the ingredients for good resiliency building in TAM programs
3. Gain knowledge of the resources that are available to support TAM and resiliency building
4. Share the experience of recent TAM-related resiliency building efforts, including the best examples of resiliency building in the 2022 TAMPs
5. Share the experience of recent TAM-related resiliency building efforts, including the best examples of resiliency building in the 2022 TAMPs that have been certified by FHWA
6. Discuss what is needed in resources and research to best meet the needs of transportation agencies' resiliency building in TAM programs
7. Prioritize future TAM initiatives for FHWA, AASHTO, and TRB



# Responses Summary

## 1. What risks are considered as part of resiliency?

- Wide range of responses.
- Everyone who identified specific risks noted extreme weather/flooding
- Many other risks are considered by one or more agencies – ice melt, seismic, landslides/geohazards, cyber security

## 2. What assets are addressed?

- Typically pavement, bridges and culverts
- Some agencies have specifically looked at multiple other asset categories – e.g., CT and FL

## 3. How far along are states in their resiliency efforts?

- There are a wide range of responses
- Some states, such as FL and AK, have very mature programs
- Others are very early in their efforts
- Many described ongoing efforts to create new programs and/or for new groups





# Response Summary (continued)

## 4. What are the challenges?

- Resources – both \$ and staff time
- Need for improving expertise in this area
- Developing metrics and guidance

## 5. Interesting examples

- Alaska
- Florida
- Ohio Vulnerability Assessment Screening Tool (VAST)
- California risk scoring approach



# Response Summary (continued)

- **Alaska**
  - Consider cold weather, ice melt, seismic, scour
  - Resilience included in lifecycle planning for pavement and bridges
  - Currently developing a resiliency improvement plan
- **Caltrans**
  - Conducted vulnerability plans addressing variety of risks
  - Developed a software tool for evaluating risk and resiliency to be evaluated for the impact on asset condition
- **Colorado**
  - Have a process for performing resilience assessments
  - Implementing training program for risk assessment
- **Connecticut**
  - Consider flooding/extreme weather
  - Established a resiliency working group
  - Participating in FHWA's Climate Resilience Pilot Program
- **Delaware**
  - Established a Division of Resilience and Sustainability
  - Focusing on flooding/sea level rise
- **Florida**
  - Established a policy on Resilience of State Transportation Infrastructure
  - Established Resilient Florida program
  - Developed a Resilience Action Plan
  - Assessing impacts of storms, flooding and sea level rise
  - Considering impacts to a wide range of assets
- **Iowa**
  - Created a Resiliency Working Group
  - Evaluating multiple hazards for pavement and bridges, plus cyber security, alternative routes for emergency closures and climate change
- **Kansas**
  - Development of RIR



# Response Summary (continued)

- **Maryland**
  - Statewide Climate Action Plan in place since 2008
  - Establishing MDOT Resiliency Task Force (RTF)
- **Minnesota**
  - Hiring a resiliency engineer and developing an RFP for a Resiliency Implementation Plan
  - Developing resiliency metrics
  - Noted flooding as an example of resiliency-related risk (others?)
- **Nevada**
  - Developing the Resiliency Program Plan
  - Considering cybersecurity
- **North Dakota**
  - Established an investment category for resilience – functional capacity
  - Awarded 5 federal grant applications specifically related to multi-modal resiliency and climate-change mitigation efforts.
- **Ohio**
  - Scoping a project to develop a resiliency plan
  - Developed a Vulnerability Assessment Screening Tool (VAST) to identify at-risk pavements, culverts and bridges
- **Rhode Island**
  - Identifying all vulnerable assets in 10-year plan
  - Identified Environmental Resiliency as one of the principal asset risks for the department
- **Tennessee**
  - Just getting started – has not been a priority in the past
- **Utah**
  - Getting started
- **West Virginia**
  - Compiling a resiliency plan
  - Interested in landslides, flooding/scour, drainage impacts



# Panel Discussion

- **William Johnson, Colorado DOT**
- **Mike Johnson, Caltrans**
- **Matt Haubrich, Iowa DOT**

Submit your questions using the Webinar's Q&A feature

# All webinars available online:

<https://www.tam-portal.com/event-directory/tam-webinars/>

## Save the Dates!

A bimonthly webinar series, Wednesdays at 2:00 PM EST

**Next Webinar**

**Wednesday, February 16, 2022– 2:00 PM EST**

**More to follow!**



For more information or to register:

<https://www.tam-portal.com>