

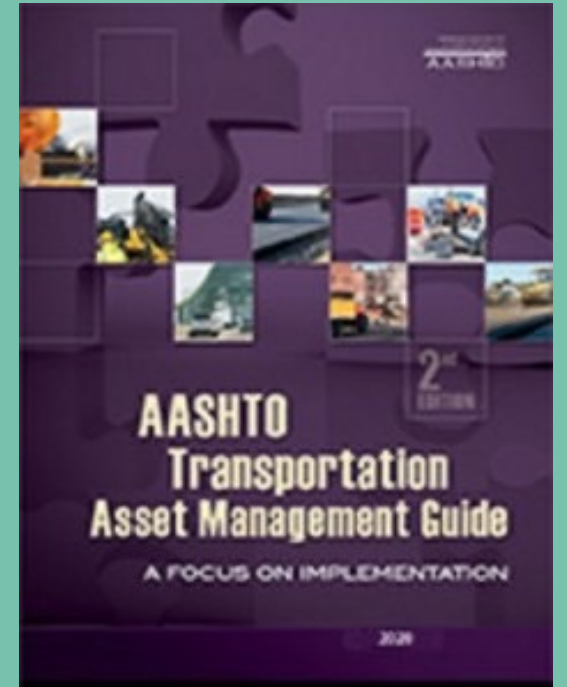
# AASHTO TAM Guide Book Club

## Webinar 1

## Preparing for your 2022 TAMP with the TAM Guide

For today's polls, visit  
**menti.com** and use the code  
**9866 9260**

April 21, 2021  
Sponsored by FHWA

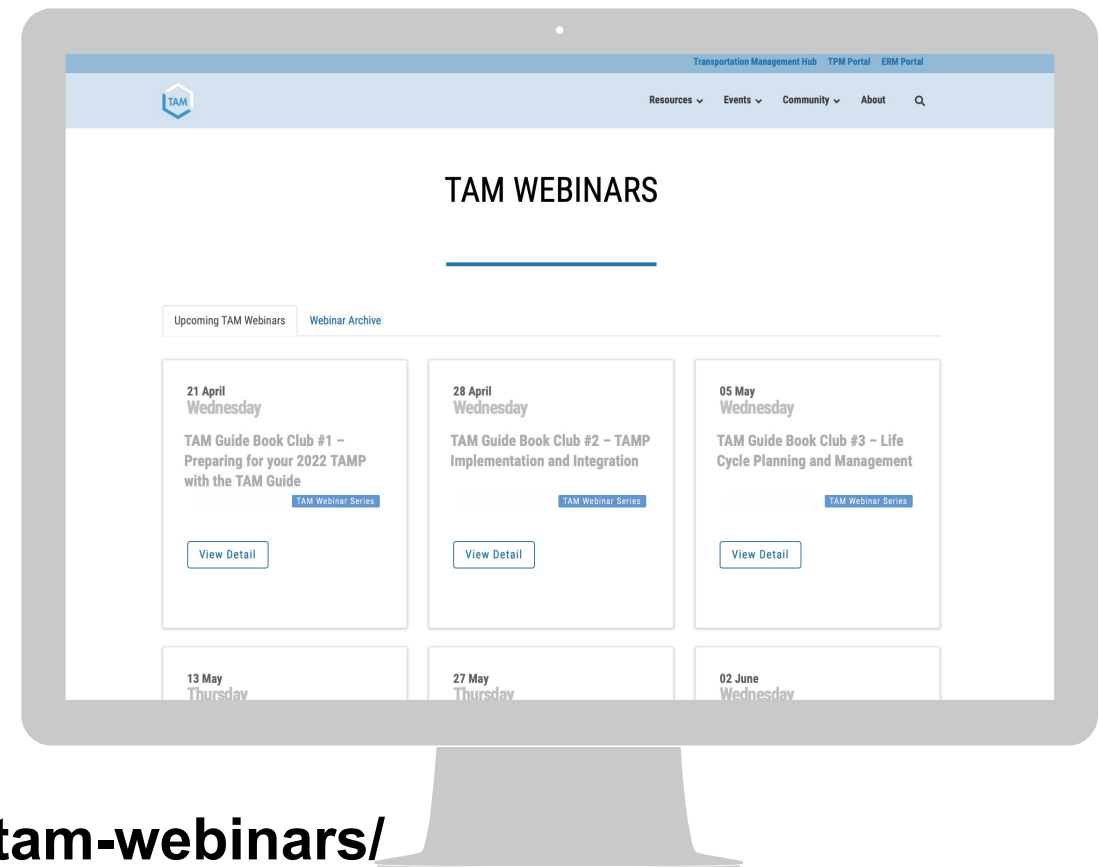


# AASHTO TAM Guide Book Club

## Welcome

- Launching a new format after **50(!)** installments of our regular bi-monthly TAM webinar series
- The TAM Guide Book Club will be meeting again next week
  - Topic: TAMP Implementation
- Visit the AASHTO TAM Portal to register and for the complete archive of past webinars

Updated AASHTO TAM Portal



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


# AASHTO TAM Guide Book Club

## Welcome

FHWA is pleased to sponsor this special TAM Guide Book Club Webinar series

- Sharing knowledge is a critical component of advancing asset management practice
- The AASHTO TAM Guide is a valuable resource for agencies starting to develop their next TAMP
- This series is designed to focus on the areas where agencies will derive the greatest benefit:
  - Eight sessions addressing TAMP Implementation, Life Cycle Planning and Management, Financial Planning, Risk and Resiliency, and more

FHWA/AASHTO TAM Webinar Series



# AASHTO TAM Guide

## Book Club Webinar Miniseries

The new AASHTO Transportation Asset Management (TAM) Guide is now available! It is designed to help transportation agencies advance TAM practices and support them as they conduct TAM activities. The Guide will be especially helpful now as agencies prepare 2022 transportation asset management plans (TAMP). This interactive webinar miniseries will help participants familiarize themselves with what is in the Guide and how to use it to meet their TAM needs.

Visit the AASHTO TAM Portal for more information: <https://www.tam-portal.com/tam-webinars/>

### Upcoming Webinars

21  
April

2PM EDT

#### Preparing for your 2022 TAMP with the TAM Guide

This will be the introductory session to the TAM Guide book club miniseries. Presentations will address how agencies can use the Guide to help them with the development of their 2022 TAMP. The webinar will also introduce the format and contents of this webinar series.

**Register** <https://us02web.zoom.us/j/zoom/register/2?u=32pnH1tqk08dKdXr1nLVE5DyR2JpI>

28  
April

2PM EDT

#### TAMP implementation and integration

TAMP implementation and integration showed the lowest performance in FHWA's recent assessment of the 2019 TAMPs. This is an area where agencies need resources to help improve practice. The webinar will cover where the Guide can help in the "how to's" for implementation and with integration with other agency activities.

**Register** <https://us02web.zoom.us/j/zoom/register/2?u=32pnH1tqk08dKdXr1nLVE5DyR2JpI>

5  
May

2PM EDT

#### Life Cycle Planning and Management

Life cycle planning and management is an underpinning of effective TAM. The TAM Guide provides practical guidance, examples of practice, and "how to's" to help agencies strengthen life cycle planning and management of assets.

**Register** <https://us02web.zoom.us/j/zoom/register/2?u=32pnH1tqk08dKdXr1nLVE5DyR2JpI>

13  
May

2PM EDT

#### Improving TAM Financial Planning

As agencies advance their TAM practices, financial planning and its integration with other aspects of TAM practices is an important ingredient. This webinar will point to specific aspects of good financial planning practices and will also cover the need to integrate financial planning with life cycle planning and management and with risk management.

**Register** <https://us02web.zoom.us/j/zoom/register/2?u=32pnH1tqk08dKdXr1nLVE5DyR2JpI>

27  
May

2PM EDT

#### Improving Risk Management and Resiliency

Agencies are getting better at managing risks and building greater resiliency into their TAM programs. There is more to be done and the TAM Guide provides techniques for increasing risk and resiliency management capabilities. This webinar will share this guidance to help the participants find specific resources.

**Register** <https://us02web.zoom.us/j/zoom/register/2?u=32pnH1tqk08dKdXr1nLVE5DyR2JpI>

2  
June

2PM EDT

#### Increasing Your Workforce Capacity

People are a key ingredient to TAM program success. TAM understanding and knowledge increases workforce capabilities to deliver better outcomes for the resources available. This webinar will share how the Guide can be used to strengthen workforce capacity to support the TAM program.

**Register** <https://us02web.zoom.us/j/zoom/register/2?u=32pnH1tqk08dKdXr1nLVE5DyR2JpI>

9  
June

2PM EDT

#### Investment Strategies & Multi-Objective Decision Analysis

The ability to develop impactful investment strategies and to apply tradeoff techniques to select the best choices to meet those strategies is a key ingredient of advanced TAM programs. This webinar will use the TAM Guide to illustrate how to develop and implement effective investment strategies.

**Register** <https://us02web.zoom.us/j/zoom/register/2?u=32pnH1tqk08dKdXr1nLVE5DyR2JpI>

16  
June


2PM EDT

#### Strengthening How Data Supports Your TAM Program

Data is a foundational resource for TAM. This webinar will walk through key objectives of how to manage your data to support your TAM programs and use the Guide to go over specific techniques. It will illustrate a specific case of planning for data needs associated with adding a new asset to your TAM.

**Register** <https://us02web.zoom.us/j/zoom/register/2?u=32pnH1tqk08dKdXr1nLVE5DyR2JpI>

The AASHTO TAM Guide is online: [www.tamguide.com](http://www.tamguide.com)



# AASHTO TAM Guide Book Club

## Agenda

- |                |  |
|----------------|--|
| <b>2:00 PM</b> | <b>Introduction</b><br>Matt Hardy, AASHTO and Steve Gaj, FHWA  |
| <b>2:05 PM</b> | <b>Agenda &amp; Topic Introduction</b><br>Hyun-A Park, Spy Pond Partners, LLC<br>Katie Zimmerman, Applied Pavement Technology, Inc.    |
| <b>2:15 PM</b> | <b>Use Case Scenarios</b><br>Anne-Marie McDonnell, Connecticut DOT<br>Phillip Montoya, New Mexico DOT<br>William Johnson, Colorado DOT |
| <b>2:30 PM</b> | <b>Guidance Quests – Breakout Sessions</b>   |
| <b>3:10 PM</b> | <b>Breakout Session Feedback</b>   |
| <b>3:20 PM</b> | <b>Open Discussion and Q&amp;A</b>   |

# Web-Based Guide

tamguide.com

Chapter 2

Quick Links

Chapters ~

Chapter 2

Sections ~

Chapter 2

Executive Summary

Chapter PDF

Chapter 2

TAM Strategy and Planning

Developing TAM strategies is an agency-wide activity undertaken to ensure that the agency delivers on its vision, mission and defined asset management goals and targets. A TAM strategy is the big-picture outlook needed to integrate TAM with existing processes and make ongoing improvements once TAM is underway. While practices in TAM strategy development vary across agencies, a strategy will generally establish basic TAM principles, connect to agency strategic goals, and provide a framework for how TAM will be carried out.

Chapter 2 Outline

Read the Full Chapter

Section 2.1

Developing a TAM Strategy

TAM strategies and plans should be integrated within the agency's overall vision and strategy documents and other related plans. A stand-alone TAM policy can also be used to establish leadership support, define principles and communicate the purpose of TAM.

Section 2.1 Home

2.1.1

2.1.2

This section has the following parts:

1. Integrating TAM Within Agency Strategic Plans and Policies.

It is important to include TAM as a part of agency-wide plans and policies in order to establish the role of TAM within the agency.

2. Creating a TAM Policy

This section outlines the key aspects of a TAM policy and how to develop it.

Section 2.2

TAM Integration

An integrated view of TAM is critical to its advancement within an agency. Integration ensures TAM is linked to other existing business processes within the agency. Integrated planning considers the life cycle of an asset comprising the "cradle-to-grave" approach. Understanding each phase of the life cycle requires coordination between planning, design and operations teams. Understanding each phase of the life cycle requires coordination between planning, design and operations teams.

Section 2.2 Home

2.2.1

2.2.2

2.2.3

2.2.4

This section has the following parts:

1. Planning and Programming.

Decisions made during the planning and programming process establish the strategic framework for TAM choices during the delivery and implementation process.

2. Performance Management.

Within all TAM programs, the use of performance management is critical to align investment decisions with organizational objectives.

3. Risk Management.

Risk management is integrated with TAM processes at the strategic level. Risk can also be considered at the asset level to understand the impact of asset failure on the wider system.

4. Information Management.

How agencies manage data and information, and how these are used, are important considerations in TAM.

Section 2.3

TAM Assessment and Advancement

Developing and implementing asset management can follow an incremental approach that helps shape processes over time. Asset management processes should be appropriate to the organization, the type of decision being made and the accuracy required in the decision-making process. Agencies may not always be ready for full-scale implementation of TAM, and incremental implementation can help make the best use of limited resources for managing assets while supporting management of the change introduced with improved asset management practice. A primary step in incremental asset management implementation is understanding the current strengths, weaknesses, achievable improvements and the areas where the most benefit can be gained.

Section 2.3 Home

2.3.1

2.3.2

2.3.3

2.3.4

This section has the following parts:

1. Assessing Current Practice.

When assessing current practice, it is beneficial to use a framework providing an industry recognized reference that defines aspects of practice requiring evaluation.

2. Defining and Prioritizing Improvement in TAM Approaches.

Agencies managing different types of assets are faced with the decision of where to prioritize advancing formal asset management.

3. Developing a TAM Implementation Plan.

A TAM implementation plan can clearly communicate an agency's next steps for TAM and define responsibilities for implementation.

4. Monitoring TAM Program Improvements.

Monitoring progress enables reporting of success, identifying areas of further focus and enabling adjustments.

Section 2.4

Developing a Transportation Asset Management Plan

A Transportation Asset Management Plan (TAMP) is a document that describes an agency's assets and how they will be maintained over time. Developing a TAMP is consistent with best practice in TAM.

Checklists

Ingredients in an Implementation Plan. Section 2.3.3

Agencies can use this checklist when developing and communicating a TAM implementation Plan.

How-To Guides

How-to Develop an Asset Management Policy. Section 2.1.2

This How-To Guide provides eight steps for developing a TAM policy.

How-to Develop a Risk Register. Section 2.2.3

This How-To Guide provides nine steps for developing a risk register.

How-to Prioritize Assets for TAM Advancement. Section 2.3.2

This How-To can guide the selection of assets to prioritize for advancement in TAM.

Key Terms

Asset Class

Goals

Information Management

Measures

Objectives

Performance Management

Planning

Principles

Programming

Risk Management

Strategic Plan

TAM Policy

TAMP

Targets

# Print Guide

AASHTO Transportation Asset Management Guide Volume III

Chapter 2. TAM Strategy and Planning

●●●●●●

●●●●●

Section 2.1

Developing a TAM Strategy

provides information on creating a TAM policy and aligning it with other strategic plans within the agency.

●●●●●

Section 2.2

TAM Integration

explains the importance of integrating TAM within planning and programming, risk management, and information management.

●●●●●

Section 2.3

TAM Assessment and Advancement

offers guidance on assessing current TAM practice and prioritizing areas for improvements.

●●●●●

Section 2.4

Developing a Transportation Asset Management Plan (TAMP)

introduces the basic elements of a TAMP and describes ways agencies might go beyond the basic requirements.

●●●●●●

Chapter 2

TAM Strategy and Planning

Developing TAM strategies is an agency-wide activity undertaken to ensure that the agency delivers on its vision, mission and defined asset management objectives and targets. A TAM strategy is the big-picture outlook needed to integrate TAM with existing processes and make ongoing improvements once TAM is underway. While practices in TAM strategy development vary across agencies, a strategy will generally establish agency specific TAM principles, connect to agency strategic goals, and provide a framework for how TAM will be carried out.

Key Terms

Asset Class

A type of asset (e.g. pavement, bridge, sign, signal, etc.).

Goals

Broad statements articulating a desired end state that provide strategic direction for an agency. (TPM Guidebook)

Information Management

The processes and framework for acquiring, distributing, and storing information at an agency.

Measures

Indicators that track progress toward goals and objectives. Used to establish targets and assess progress toward achieving established targets. (TPM Guidebook)

Objectives

Specific, measurable statements that support achievement of a goal. (TPM Guidebook)

Performance Management

A process that provides accountability and feedback to ensure that goals are met in an efficient and effective manner.

Planning

The use of agency goals and objectives to drive development of strategies and priorities in the long-range transportation plan and other plans and processes. (TPM Guidebook)

TAM Policy

Defines the approach the agency will take to achieve the goals and objectives set forth in the strategic plan.

Principles

From a TAM perspective, fundamental ideas that serve as a foundation for making decisions to better address infrastructure needs.

Programming

The use of strategies and priorities to guide the allocation of resources to projects that are selected to achieve goals, objectives, and targets. (TPM Guidebook)

Risk Management

The processes and framework for managing potential risks, including identifying, analyzing, evaluating, and addressing the risks to assets and system performance. (23.C.F.R 515.5)

Strategic Plan

Sets a vision for the future of the agency and defines the goals and objectives to achieve that vision.

TAMP

Transportation Asset Management Plan

Targets

Quantifiable levels of performance the agency wants to achieve within a specific time frame. (TPM Guidebook)

2-2



# AASHTO TAM Guide Highlights

- Online guide designed for easy and efficient updating
- U.S.-focused practice examples illustrate applications
- Supporting resources include checklists and how-to guidance
- Guide framework is applicable to many assets and modes
- Both print and online versions use common navigation

Welcome to the AASHTO Transportation Asset Management Guide. Whether you are new to asset management, a seasoned practitioner, or an executive, this Guide will help to further your understanding of asset management techniques and advance asset management practices at your agency.



## What is Transportation Asset Management?

As defined by the American Association of State Highway Transportation Officials (AASHTO), transportation asset management (or TAM) is a “strategic and systematic process of operating, maintaining, upgrading, and expanding physical assets effectively throughout their life cycle. It focuses on business and engineering practices for resource allocation and utilization, with the objective of better decision making based upon quality information and well defined objectives.”

[Read the Executive Summary...](#)

[Read the Chapter...](#)

### Some of the benefits of TAM include:



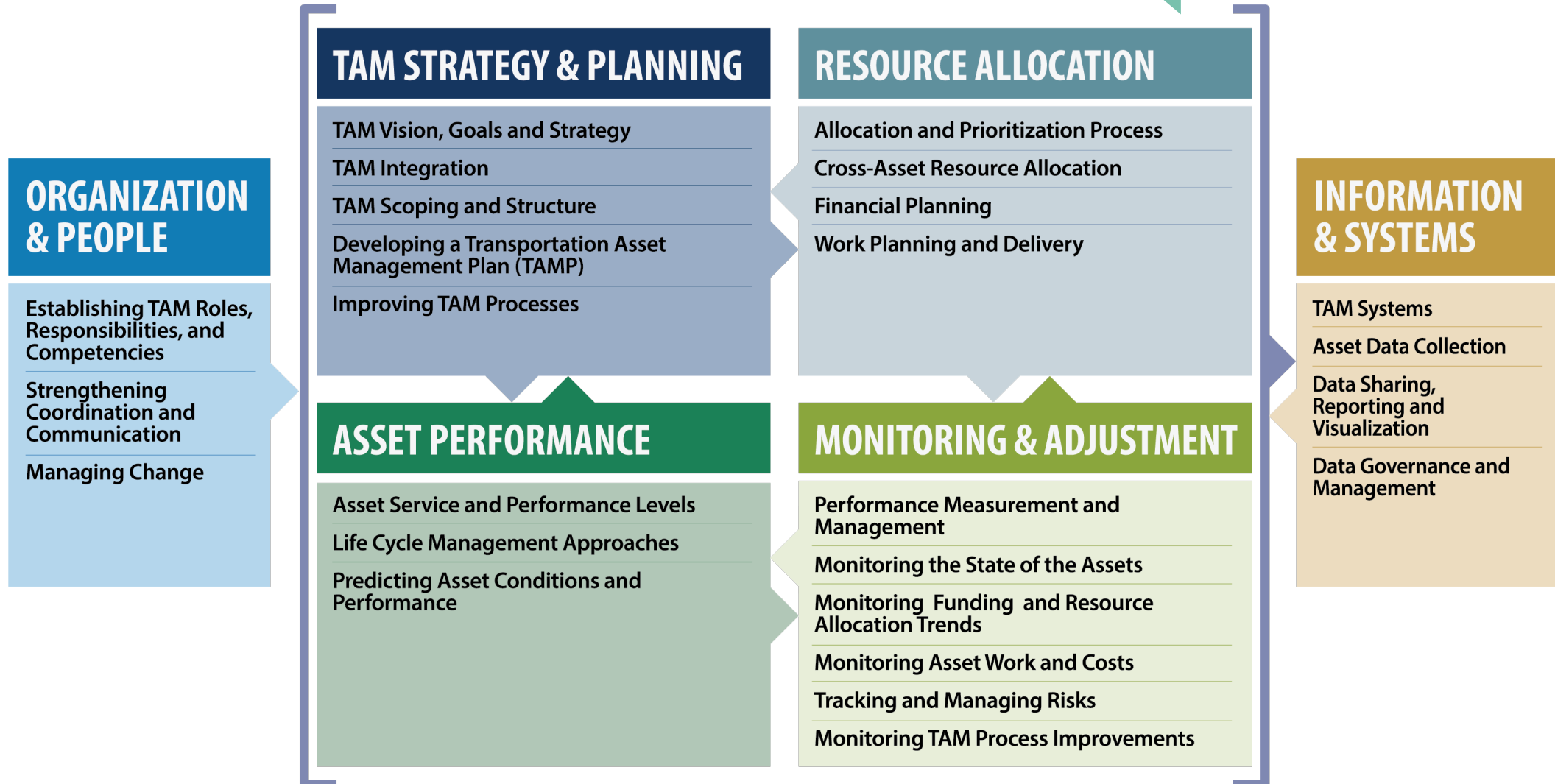
**Improved asset condition, performance, resilience, and longevity.** Asset management involves maintaining the asset condition over the asset's life time. Improved condition results in improved performance and ultimately extends the life of an asset compared to the alternative of continually deferring maintenance.



**Improved accountability.** When asset management practices are embedded in an agency, staff are held accountable within the agency and to customers and stakeholders to follow TAM practices and consistently maintain the assets in a state of good repair. Preparing an asset management plan also ensures accountability by providing reliable information about the condition of assets.

**TAM is a way of conducting a transportation agency's business to deliver more value in its activities so that the transportation system performs best with the available resources. Most**

# The guide is organized around six elements of asset management



# AASHTO TAM Guide Book Club

## Topic Introduction – Menti Polls

For today's polls,  
visit **menti.com**  
and use the code  
**9866 9260**

Go to [www.menti.com](https://www.menti.com) and use the code 9866 9260

What are the areas of your TAMP where you need to make the greatest improvement? (If you don't have a TAMP, please rank for an agency you know best.)

- |     |                                       |
|-----|---------------------------------------|
| 1st | General TAMP Maturity                 |
| 2nd | Inventory and Condition Data          |
| 3rd | Performance Management and Monitoring |
| 4th | Performance Gap Analysis              |
| 5th | Life Cycle Planning                   |
| 6th | Risk Management                       |
| 7th | Financial Planning                    |
| 8th | Investment Strategies                 |
| 9th | TAMP Implementation and Integration   |

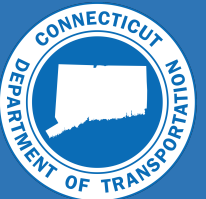
More Exit Fullscreen Hide results Close voting Start countdown > < >





# CTDOT – *Preparing for 2022 TAMPs*

- Organization & People (TAM Guide 3.1.1)
- Key TAM Roles (3.2.1)
  - Asset Stewards
  - TAM Group – Asset Liaisons
  - Asset Working Groups
- Addressing Workforce Changes & Development
- TAMP Development Process (2.4.2)
  - Updating annual data/communication Asset Fact Sheets (7.3.1)
  - Work w/ Asset Stewards to: document, document, document
  - Risk Mitigation & Process Improvements Status Options:  
Under consideration, In-Discussion, Initiated, Implemented/Ongoing,  
In Progress/Deployed



# AASHTO TAM Guide Book Club

## NMDOT Investment X Asset Condition Link

- Set out to explore how we could use our investment commitments to project asset condition improvements
- We relied on existing data sources for programmed capital and maintenance projects
- We found that the data and tools that we currently have are not sufficient to get meaningful results
- We would like to use the TAM Guide to help us improve the way we get our data and to get buy-in from parts of our agency that generates the needed data
- We are looking at the guidance in Chapter 7: Information and Systems and in Chapter 3: Organization and People

# **AASHTO TAM Guide Book Club**

## **Colorado DOT**

William Johnson, Colorado DOT

# AASHTO TAM Guide Book Club

## Quest

### Quest Items

1. We want to improve how we communicate the scope of the assets that we have in our program and their condition. Where in the TAM Guide will we get the best guidance?
2. We need to improve our target setting capabilities for our bridge and pavement assets. Where in the TAM Guide will we get the best guidance?
3. We need to do better in understanding and communicating the performance gap between how our assets perform in the future with where we are today? Where in the TAM Guide will we get the best guidance?
4. We would like to improve the way we are using our bridge and pavement management systems to apply life cycle planning and management techniques. Where in the TAM Guide will we get the best guidance?
5. We have a risk register in our last TAMP but we do not have it connected to our investment strategies. Where in the TAM Guide will we get the best guidance?
6. We would like to use the value of our assets as a performance measure in our next TAMP. Where in the TAM Guide will we get the best guidance?
7. We would like to build scenarios of different performance outcome based on how we are allocating funds to programs. Where in the TAM Guide will we get the best guidance?
8. We would like to connect our next TAMP with other plans in the agency (long range plan, freight plan, etc.). Where in the TAM Guide will we get the best guidance?

# AASHTO TAM Guide Book Club

## Quest



To select a breakout room to join,  
1. Click the ***Breakout Rooms*** menu  
2. Click the ***Join*** link next to a room

# Quest Breakout Session

## Feedback

- How were your quests?
- How many quests were you able to finish?
- What did you find the most valuable about the guide?
- What are your thoughts on how we can improve the value of the guide?
  - ☐ Updated resources?
  - ☐ Sharing new practices?
  - ☐ Linking to new guidance?
  - ☐ More resources to support the 2022 TAMP development?



# Open Discussion

**Q & A**

# Full Schedule and Registration Information

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

## **2. TAMP implementation and integration**

Wednesday 4/28/21 - 2:00 – 3:30 PM eastern time

## **3. Life Cycle Planning and Management**

Wednesday 5/5/21 - 2:00 – 3:30 PM eastern time

## **4. Improving TAM Financial Planning**

Thursday 5/13/21 - 2:00 – 3:30 PM eastern time

## **5. Improving Risk Management and Resiliency**

Thursday 5/27/21 - 2:00 – 3:30 PM eastern time

## **6. Increasing Your Workforce Capacity**

Wednesday 6/2/21 - 2:00 – 3:30 PM eastern time

## **7. Investment Strategies and Multi-Objective Decision Analysis**

Wednesday 6/9/21 - 2:00 – 3:30 PM eastern time

## **8. Strengthening How Data Supports Your TAM Program**

Wednesday 6/16/21 - 2:00 – 3:30 PM eastern time

To register:

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

To access the Guide:

[TAMGuide.com](https://TAMGuide.com)

Questions?

Contact Hyun-A Park  
or Matt Hardy

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