

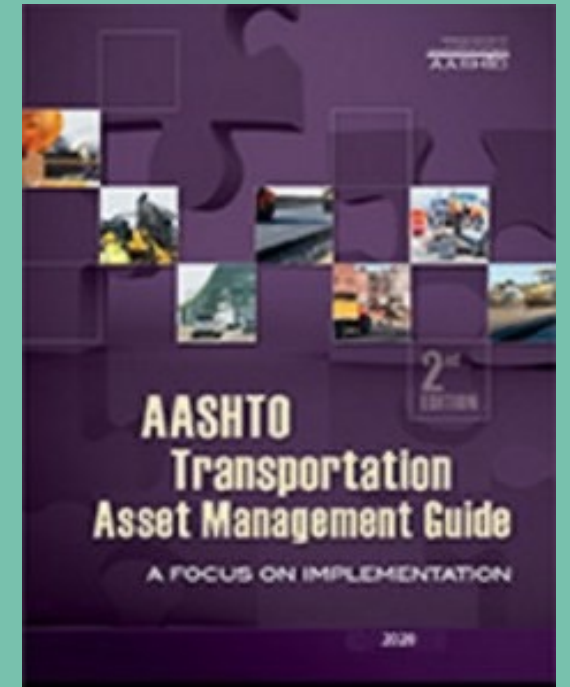
# AASHTO TAM Guide Book Club

Webinar 2

## TAMP implementation and integration

For today's polls, visit [menti.com](https://www.menti.com) and use the code **5666 4976**

April 28, 2021  
Sponsored by FHWA



# AASHTO TAM Guide Book Club

## Welcome

- Welcome to our second installment of the book club
- The TAM Guide Book Club will be meeting again next week
  - Topic: Life Cycle Planning and Management
- Visit the AASHTO TAM Portal to register and for the complete archive of past webinars

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...](#)

<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/](https://www.tam-portal.com/tam-webinars/)

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**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/640620287114408884914181483492424242)

**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/640620287114408884914181483492424242)

**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/640620287114408884914181483492424242)

**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/640620287114408884914181483492424242)

**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/640620287114408884914181483492424242)

**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/640620287114408884914181483492424242)

**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/640620287114408884914181483492424242)

**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 in 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/640620287114408884914181483492424242)

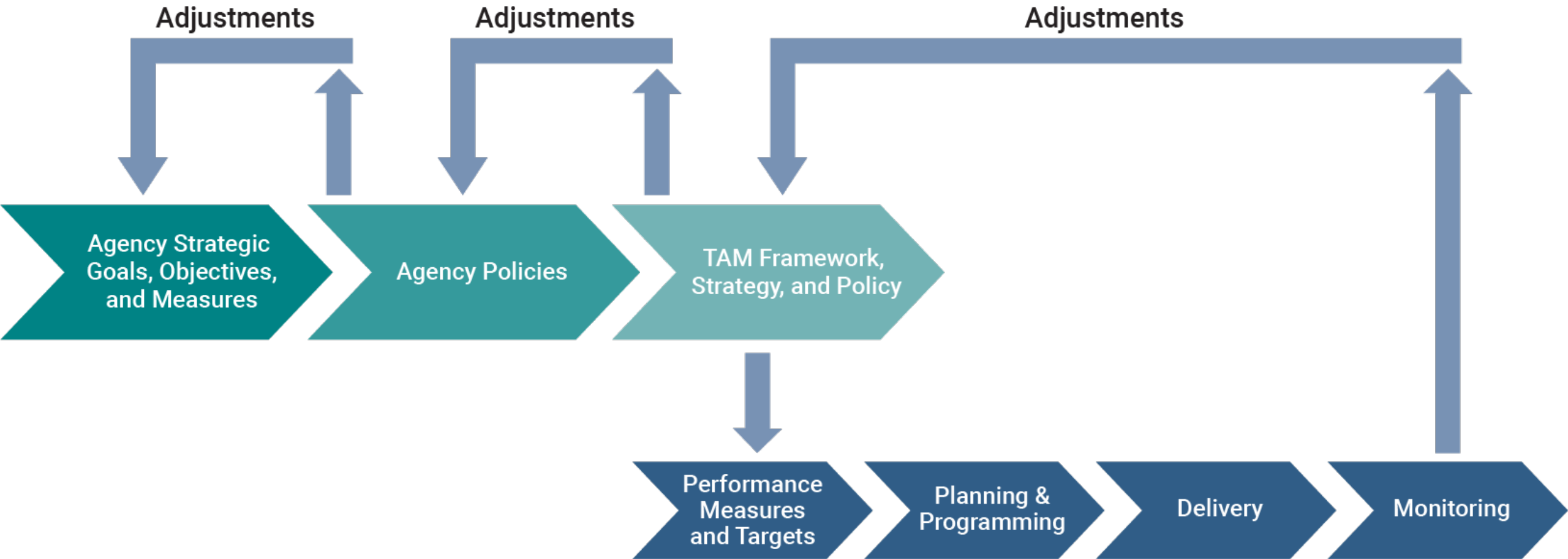
The AASHTO TAM Guide is online: [www.tamguide.com](http://www.tamguide.com)

# AASHTO TAM Guide Book Club

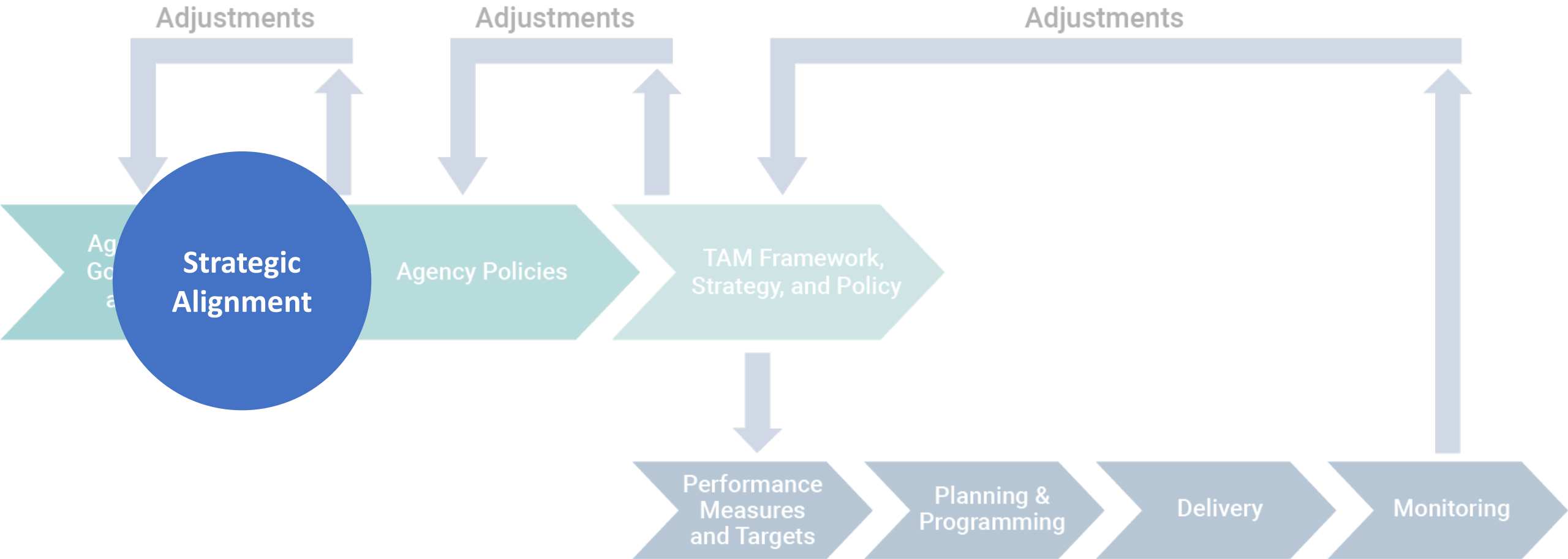
## Agenda

- 2:00 PM**      **Introduction**  
Matt Hardy, AASHTO and Steve Gaj, FHWA
- 2:05 PM**      **Agenda & Topic Introduction**  
Gareth McKay, WSP USA
- 2:15 PM**      **Use Case Scenarios**  
Jack Moran, Massachusetts DOT  
Matt Haubrich, Iowa DOT  
Meredith Hill, Maryland DOT SHA
- 2:30 PM**      **Guidance Quests – Breakout Sessions**
- 3:10 PM**      **Breakout Session Feedback**
- 3:20 PM**      **Open Discussion and Q&A**

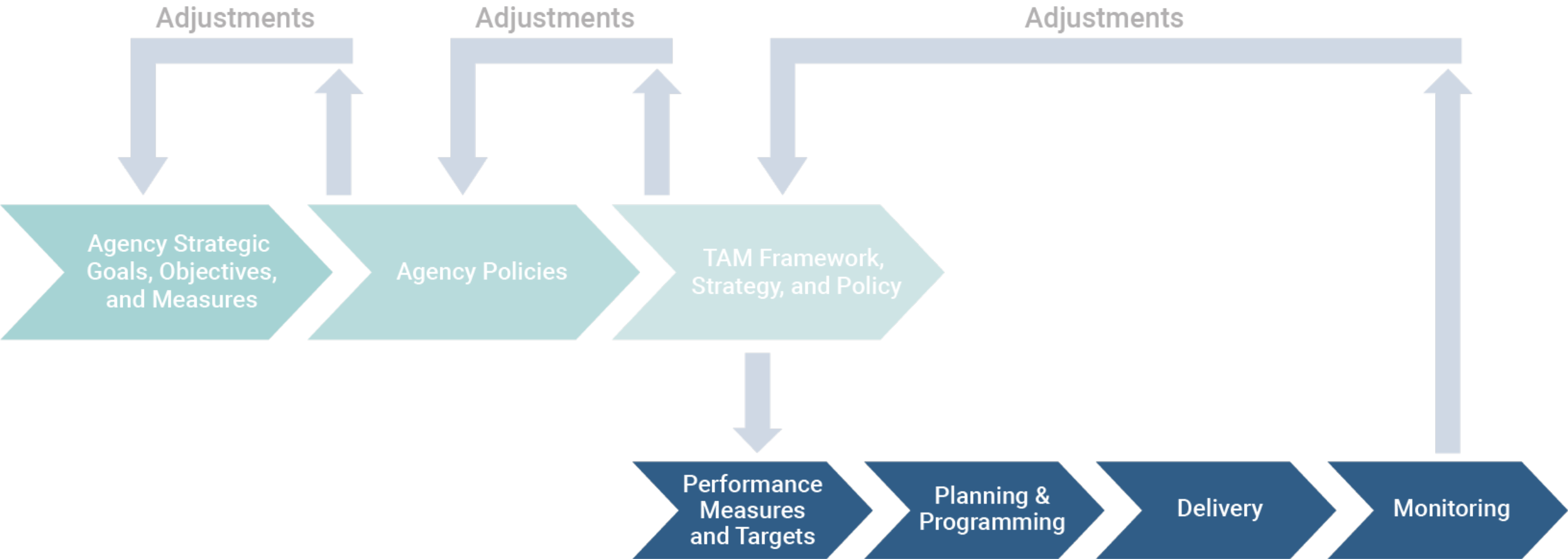
# AASHTO TAM Guide Book Club Implementation and Integration



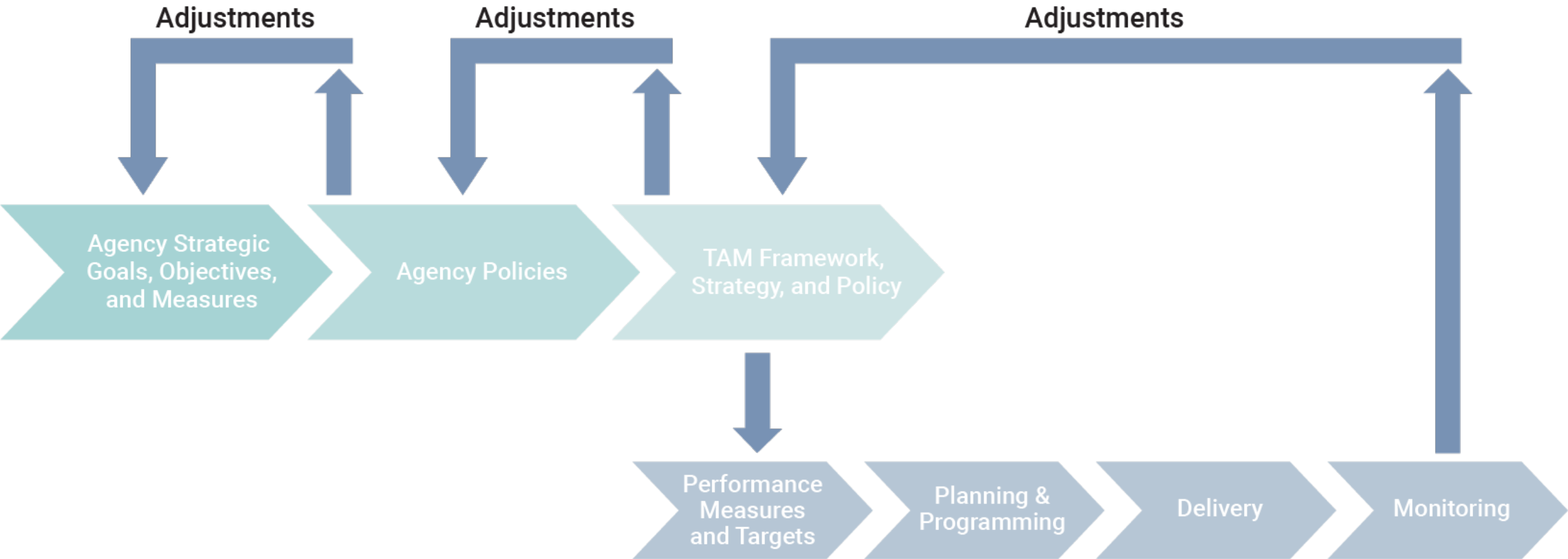
# AASHTO TAM Guide Book Club Implementation and Integration



# AASHTO TAM Guide Book Club Implementation and Integration

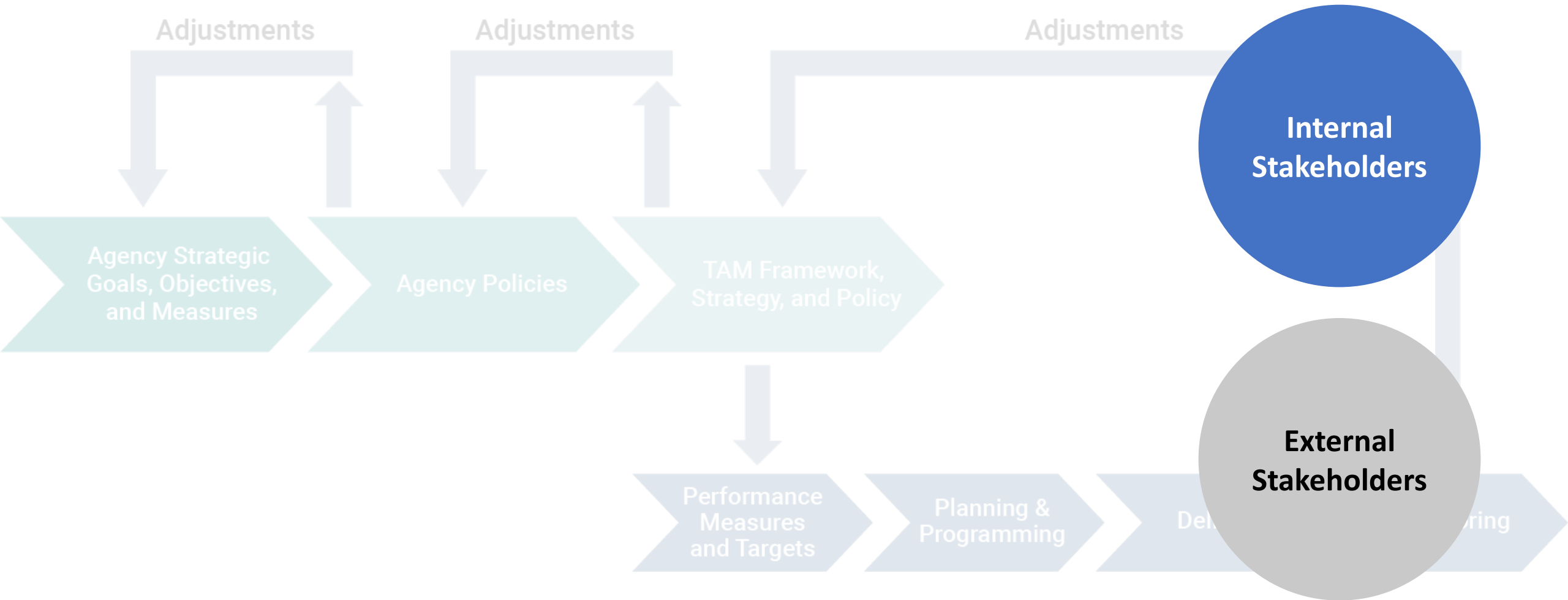


# AASHTO TAM Guide Book Club Implementation and Integration





# AASHTO TAM Guide Book Club Implementation and Integration



# AASHTO TAM Guide Book Club Implementation and Integration

## Communication

**OBJECTIVES**

**STAKEHOLDERS**

**MESSAGING**

**TIMING & FREQUENCY**

**TACTICS & CHANNELS**

**CONTINUOUS IMPROVEMENT**

**WHY**  
communicate?

**WHO**  
delivers and receives the communication?

**WHAT**  
are the messages to communicate?

**WHEN**  
will the communication occur?

**HOW**  
will information be communicated?

**HOW WELL**  
is the communication working?

**Internal  
Stakeholders**

**External  
Stakeholders**

# AASHTO TAM Guide Book Club

## Implementation and Integration – Menti Polls

For today's polls,  
visit **menti.com**  
and use the code  
**5666 4976**

1. Which areas of TAM integration are a strength in your agency? (if you are not from an agency please rank the one you know best)

Answers (multi-choice) can pick more than one:

- Planning and Programming
- Performance Management
- Risk Management
- Information Management

2. *What are the challenges your agency faces when including other asset owners (MPOs, cities, toll authorities, P3s) as part of the TAMP?*

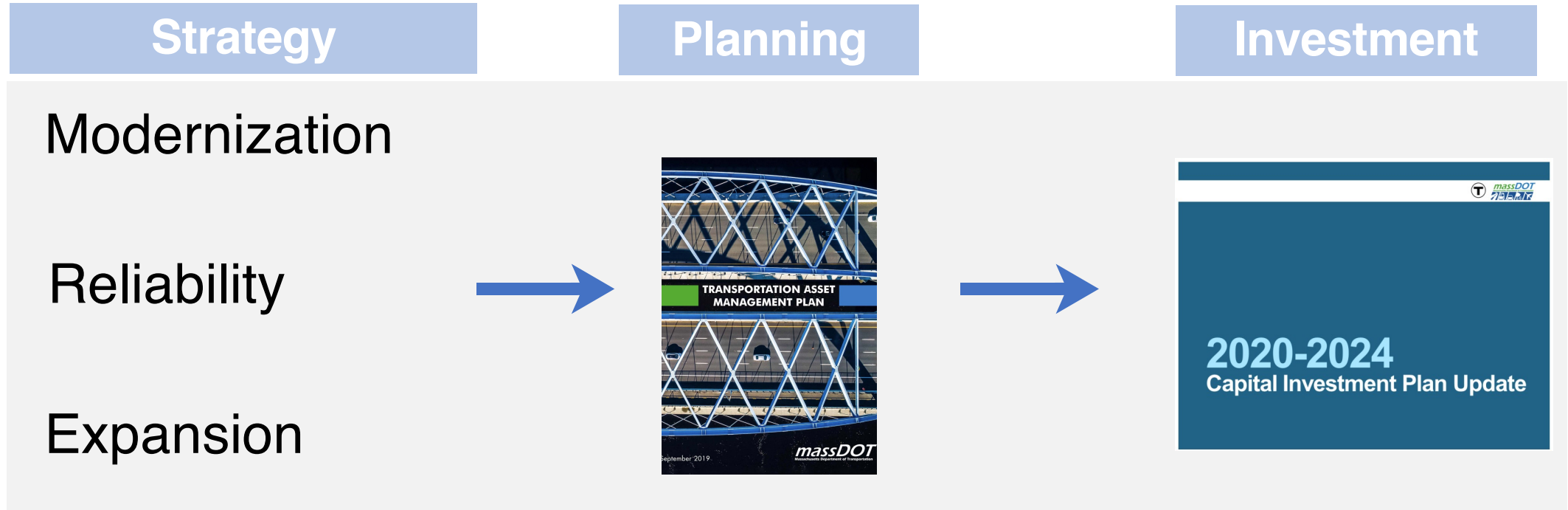
*Answers – Freeform*

3. Who is the primary audience for your TAMP?

Answers (multi-choice) can pick more than one :

- Internal stakeholders
- Agency leadership
- The public
- Politicians
- External agencies
- FHWA

# Aligning the First TAMP to MassDOT Strategic Objectives



The TAMP implements SGR Strategy (Reliability within MassDOT Parlance) for Highway Division Bridges & Pavement

➔ TAMP informed Increase to Bridge and Pavement Investments within 2021 State Transportation Bond Bill

## Realigning Strategy For 2022

We are considering:

- Support of Massachusetts *mobility* strategy with inclusion of pedestrian and bicycle infrastructure. (expansion is a big component so will be interesting to explore within what has primarily been an SGR realm), ITS systems are also being considered
- More clear incorporation of *resiliency* investments within existing programs or as a standalone program
- Support of *safety* priorities through roadway barrier/hardware management



TAM and Planning Alignment at Iowa DOT

Matt Haubrich

FHWA-AASHTO TAM Webinar Series

Guide Book Club Webinar #2, April 28, 2021



# Iowa's First TAMP

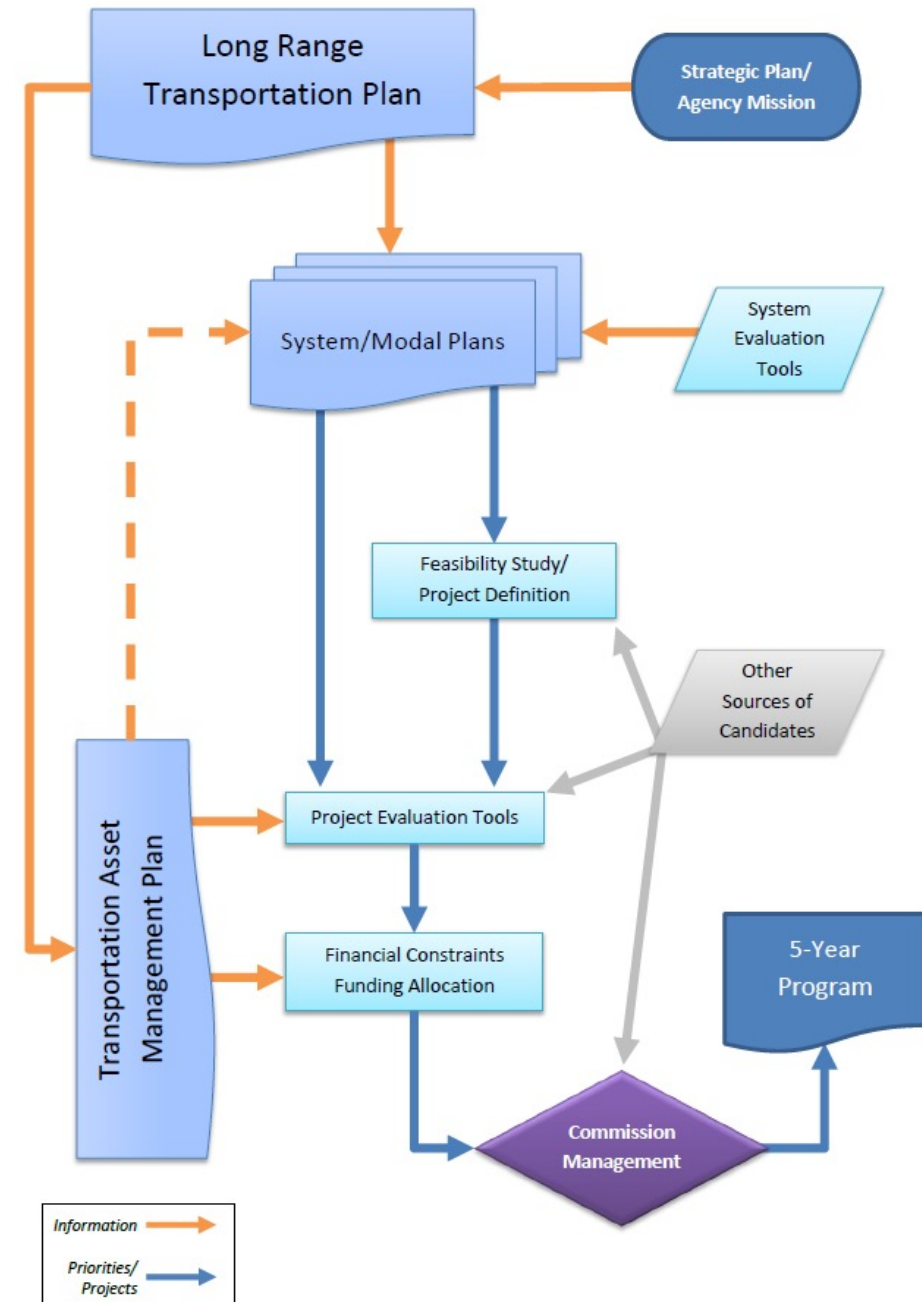
- Steering Committee formed in mid-2014
- TAMP completed in late fall of 2016 (just as rules became final)
- Was never intended to meet all of the federal requirements – but rather to help us learn
- Along with the Gap Analysis done around the same time, led to us thinking about how the TAMP fit with our processes

Where do TAM governance structures and processes fit in the big picture?



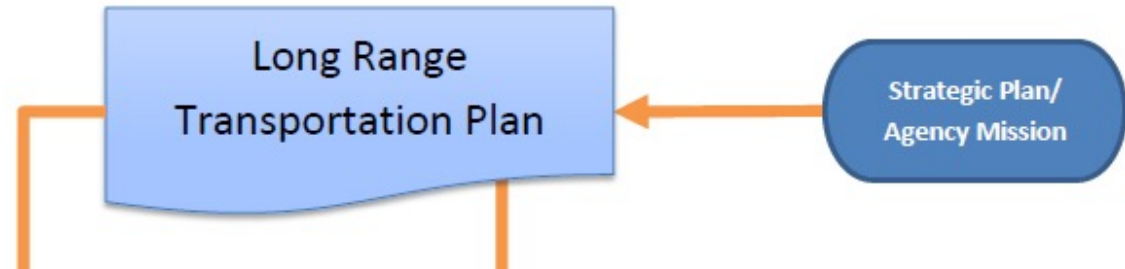


# Where do TAM governance structures and processes fit in the big picture?

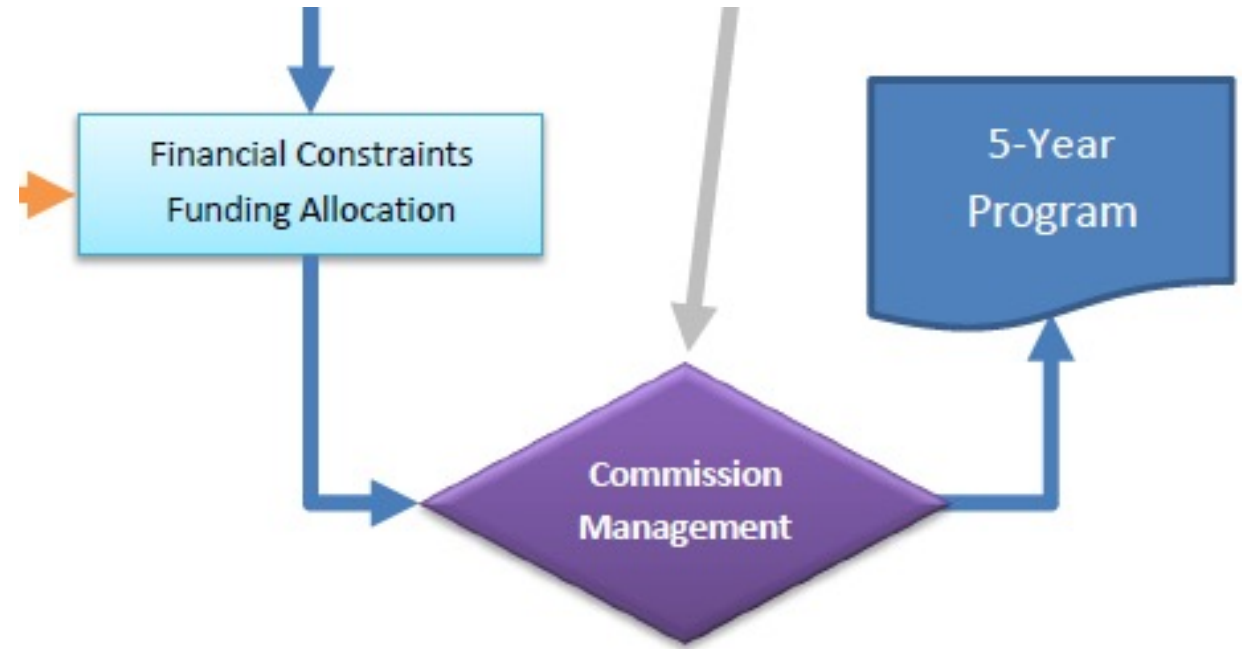


# Where do TAM governance structures and processes fit in the big picture?

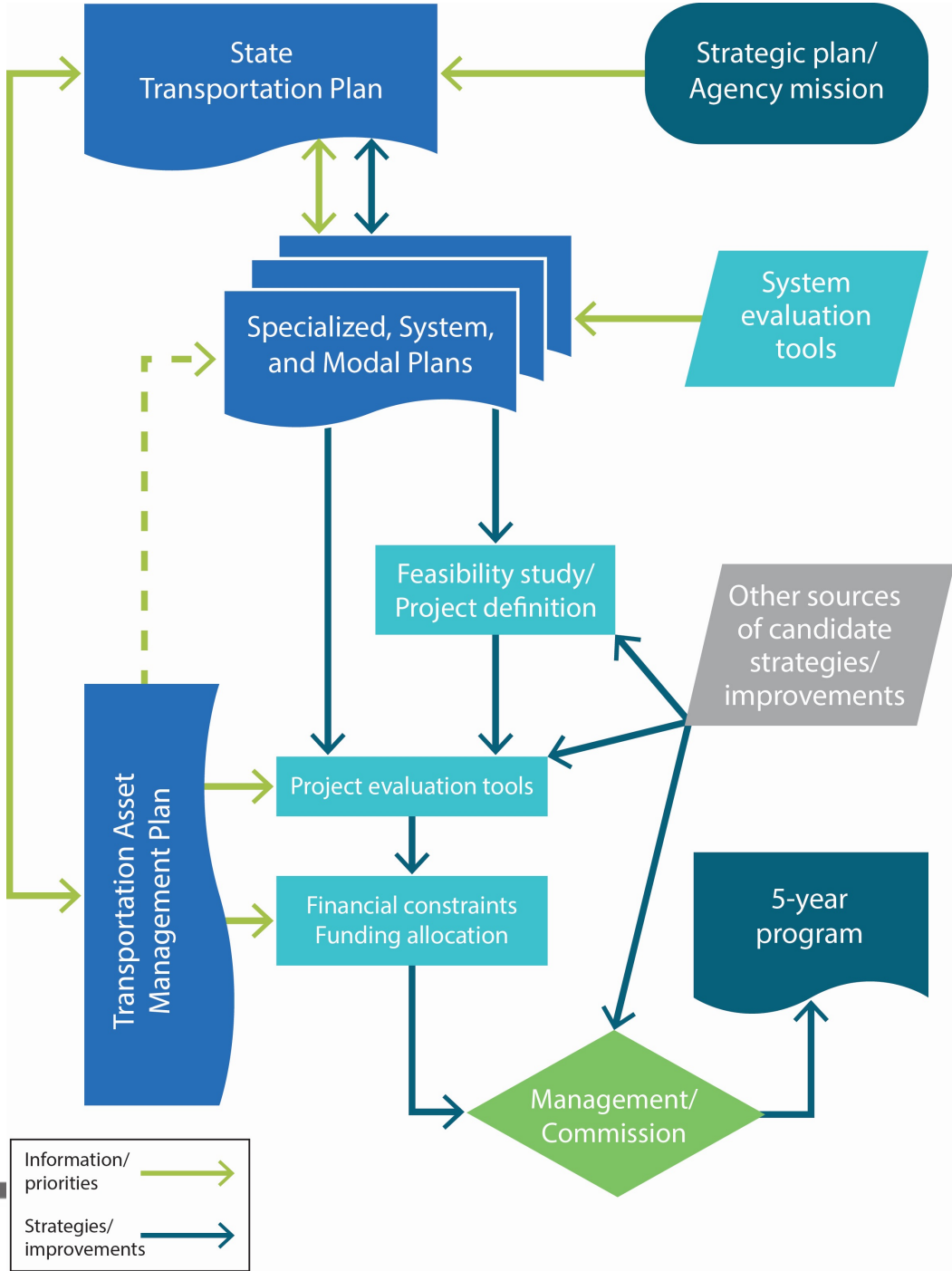
*Plan Relationship Diagram  
Draft – 3/4/2015*



Where do TAM governance structures and processes fit in the big picture?



# This version is in our current SLRTP

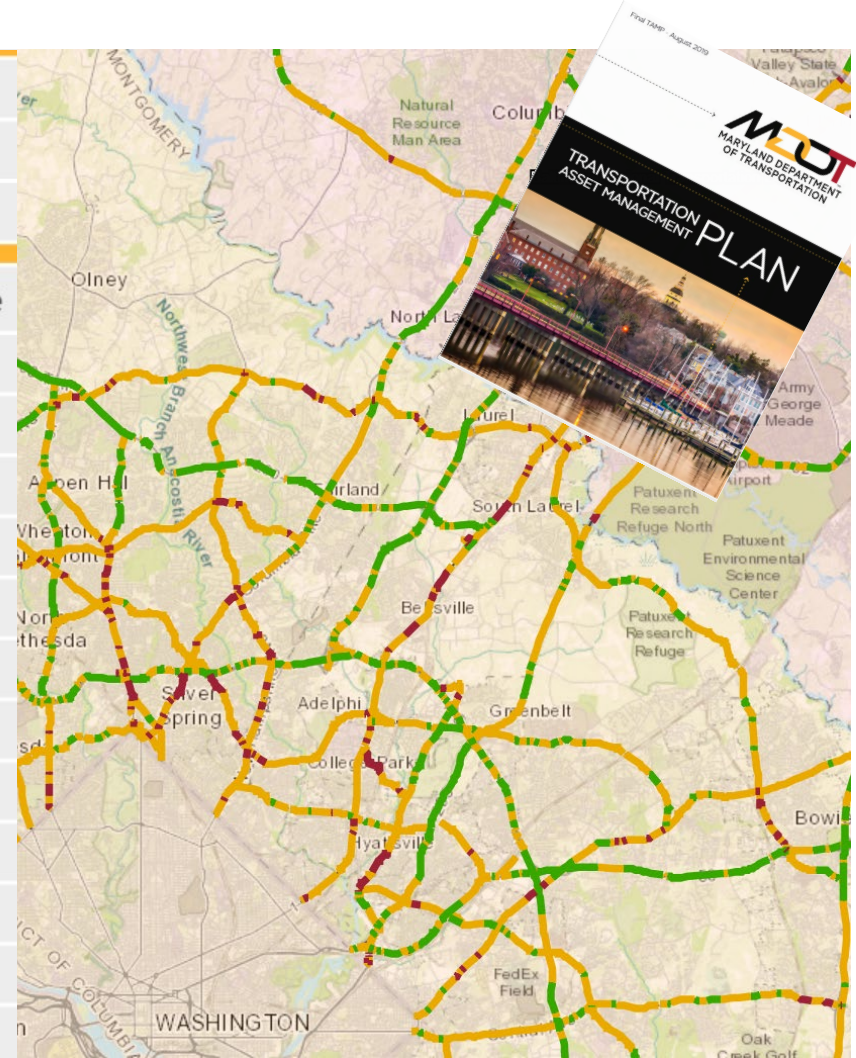




## Maryland Transportation Asset Management Plan

- For the National Highway System bridge and pavement assets
- Plan for all NHS partner owners to implement risk-based planning and programming for the lifecycle management of NHS.
  - Performance- and risk-based programming
  - 10-year financial plan
  - Strategies for proactive flexibility
- Next Step – 2022 TAMP Update in progress with a focus on Partner Owner engagement Spring/Summer 2021

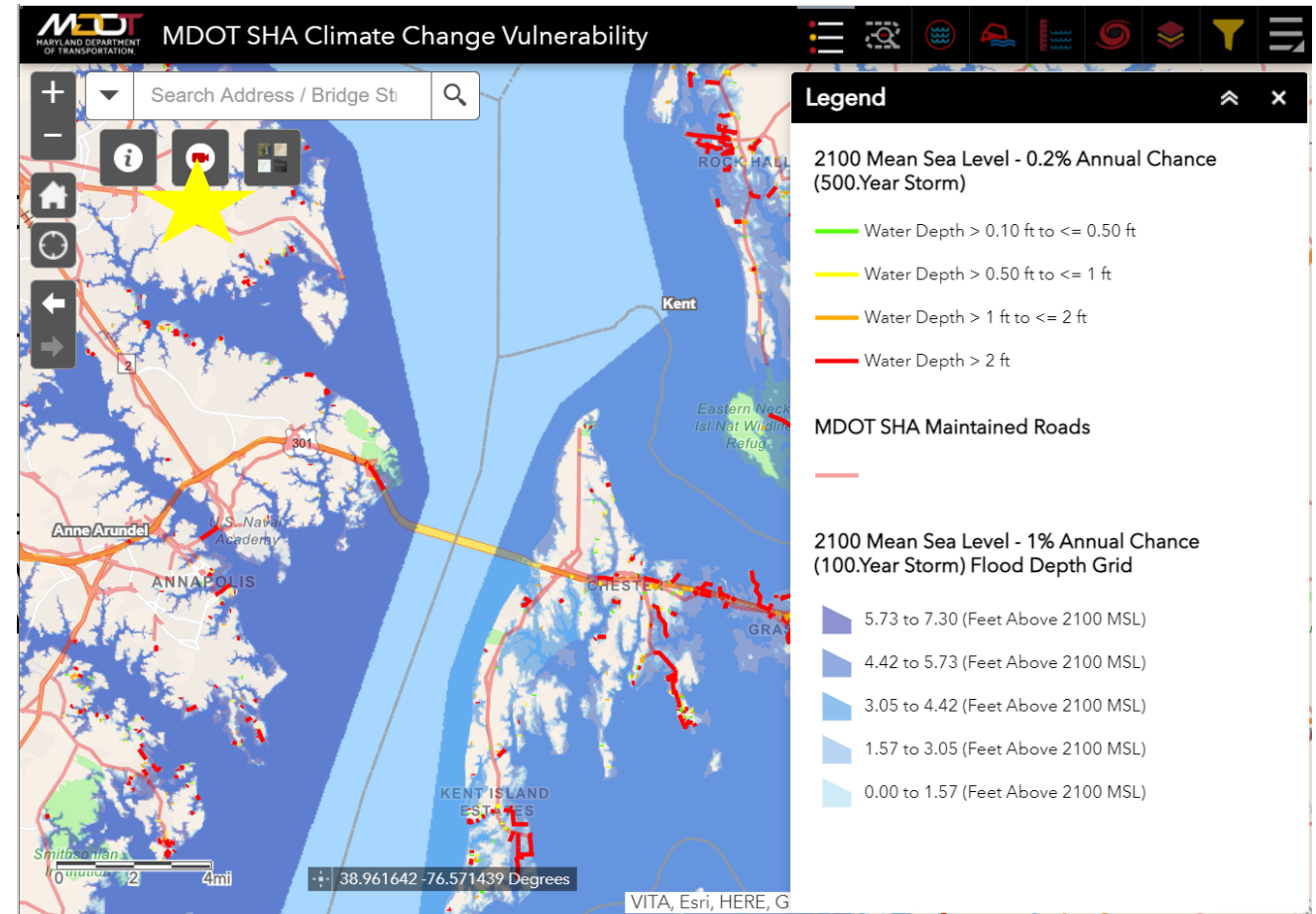
MDOT SHA
MDTA
MDOT MAA
Federal - National Park Service
Federal - ACOE/Military
County - Anne Arundel
County - Baltimore
County - Howard
County - Montgomery
County - Prince George's
County - Washington
Municipal - Baltimore City
Municipal - Brunswick
Municipal - Greenbelt
Municipal - Hagerstown
Municipal - Salisbury



To access the data: [NHS TAMP Infrastructure Condition \(TPM Story Map\)](#)

## MDOT SHA Climate Change Vulnerability Viewer

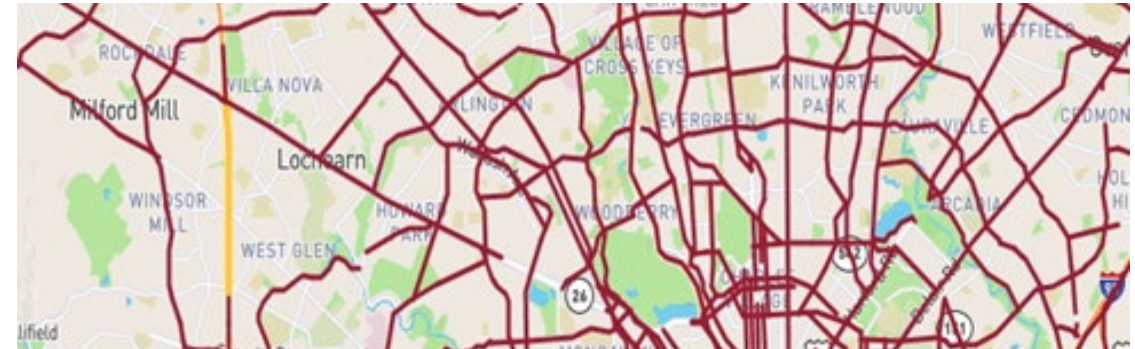
- ArcGIS Online (AGOL) web application – Public
- View and explore sea level change and the potential impacts on Maryland's roadways, including roadway assets & infrastructure.
  - Opportunity to overlay local planning agency data via AGOL iMAP partnership
  - Introductory and tour video available through Viewer
- Next Step – Planning for ~2022 update to flood depth grid (2015) and projection Scenarios



To access the app: [MDOT SHA Climate Change Vulnerability \(arcgis.com\)](https://arcgis.com)

## Maryland Performance & Analysis Tool (MrPaT)

- ArcGIS Online (AGOL) web application – Private (at present)
- Planning tool for mobility monitoring
  - [One Maryland One Centerline](#)
  - All vehicles; plus a truck-only lens
  - All OMOC/HPMS links; plus key corridors (tailorable on demand)
  - Next generation of the annual Mobility Report
- Next Step – Enhanced mobility and system performance monitoring and reporting
  - [Maryland Mobility and Reliability](#)



Year: 2018

CC

- Truck Vehicle Hours of Delay: 15,797
- Truck Congested Costs: 880,979
- Truck Travel Time Index: 1.74
- Truck Planning Time Index 80: 2.73
- Truck Planning Time Index 95: 3.95

CW

- Truck Vehicle Hours of Delay: 4,228
- Truck Congested Costs: 231,140
- Truck Travel Time Index: 1.15
- Truck Planning Time Index 80: 1.28
- Truck Planning Time Index 95: 1.46

Route ID: 030001S00695--1----

From/To: 8.28 to 10.2

Click segments to add to data table

To access the app: public dashboard coming soon



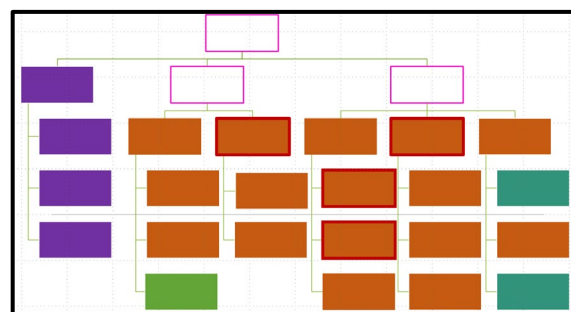
TAM Guide  
bookmarks

TAM Basics  
(1.1)  
Agency Policy  
(2.1.2)

PAR Vision and  
Objectives (2.2,  
3.1, 3.3, 1.3.4)



MDOT SHA Asset Management  
Through Organizational Change



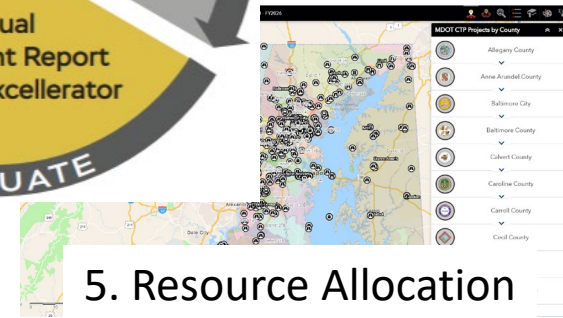
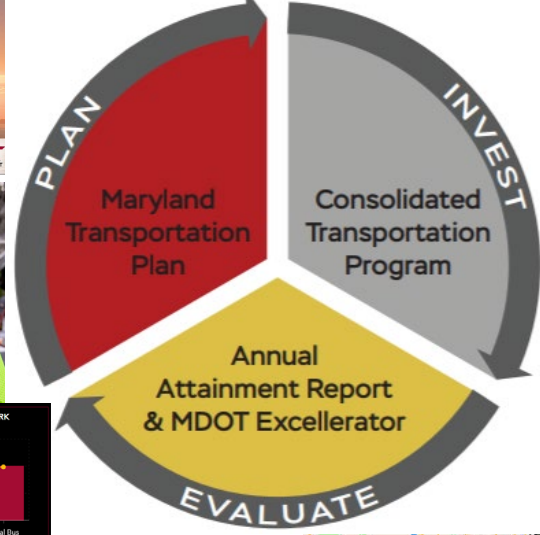
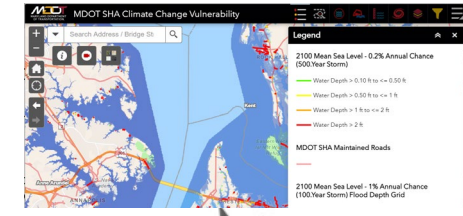
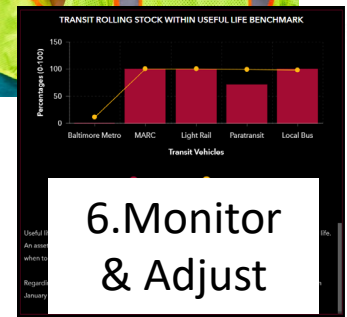
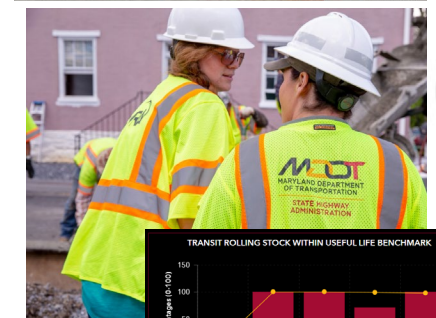
## Elements of communicating PAR

- **Videos** - great for TAM basics, leader's vision, communicating organizational change
- **Documents/Plan** – good for regulators, compliance, historic reporting
- **Organizational Community of Practice** – critical to connect workforce to vision and objectives
- **AASHTO Transportation Hub** - [www.transportationmanagement.us](http://www.transportationmanagement.us)



**Elements of communicating PAR**

- **Plan – Invest – Evaluate**
  - **AGOL Applications (7.1.4)**
    - ON DEMAND - accessible
    - ESSENTIAL - Data governance
    - NIMBLE – story telling
    - LOCALIZED – scalable information
    - CHANGE OVER TIME
- **Fact sheets (7.3.1) – 2-pages (1 is better) updated cyclically for simple and clear information sharing**



5. Resource Allocation

MDOT Maps and Apps: [MDOT iMap Data Portal](#)



### IPPD

- Meredith Hill
- MHill8@mdot.maryland.gov

### TAMP & TPM

- Toria Lassiter
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### Climate Risk & Resiliency

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### Truck Parking & MrPat

- Nicole Katsikides (TTI Consultant)
- NKatsikides.consultant@mdot.maryland.gov

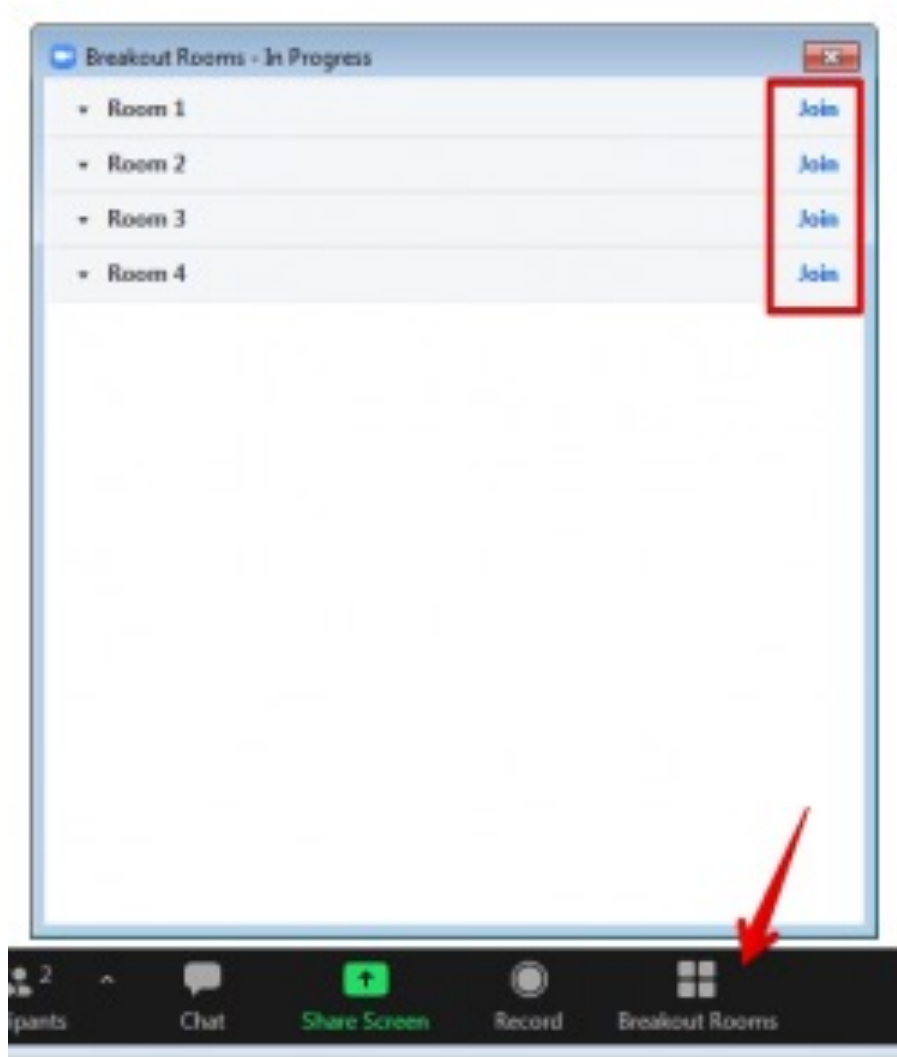
# AASHTO TAM Guide Book Club

## Quest

### Quest Items

- An agency wants to develop an asset management policy to define the intent of the TAM program. Use the TAM Guide to list the items that could be considered for inclusion in the policy? Discuss why these are important.
- The guide lists four key ingredients for success in creating a TAM policy. Discuss which is the most important for your agency and why?
- The guide identifies four key questions to ask when considering and integrating TAM with planning and programming. Which of these are the most challenging to achieve and why?
- A figure within the guide focuses on the integration of performance management and TAM. In which areas are agencies best able to create the link between asset investment needs and planning process decisions? Which link to a decision process needs the most work moving forward?
- The guide has a figure describing the levels of risk within an organization. Which of these levels should be discussed and described within a TAMP?
- Many agencies include an improvement or implementation plan within their last TAMP. Which of the 'ingredients' listed in the TAMP would improve the effectiveness of the actions listed in the plan?
- A DOT developed its first TAMP, it has seen limited improvement in some TAM processes (pavement/bridge management systems, risk management, life cycle planning) since then and wants to put in a more regular reassessment of its performance. How often would be reasonable to undertake a progress assessment based on the considerations listed in the guide?

# 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/>

## 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

for more information:

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[mhardy@aashto.org](mailto:mhardy@aashto.org)