Transportation Asset Management Webinar Series
Webinar 62

TRB TAM Conference Preview
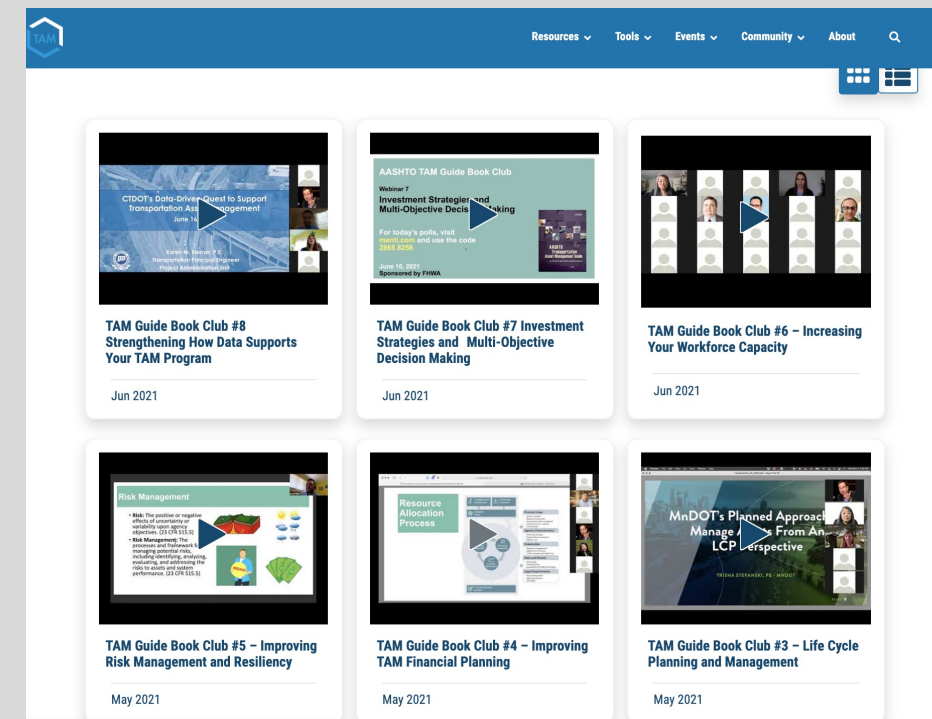
Sponsored by FHWA and AASHTO

U.S. Department of Transportation
Federal Highway Administration

AASHTO
The Voice of Transportation

April 26, 2023

FHWA/AASHTO Asset Management Webinar Series

- This is the 62nd in a webinar 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 Zoom's chat 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

- Getting the word out on the upcoming TAM Conference

- Previewing tracks of the conference

- Previewing select conference sessions

Webinar Agenda

2:00   **Welcome, Overview, and Agenda**
Matt Haubrich, AASHTO
Tashia Clemmons, FHWA
Matt Hardy, Spy Pond Partners

2:10   **Conference Introduction and Overview**
Laura Zale, SEPTA

2:20   **Peer Exchange**
Mike Johnson, Caltrans

2:25   **Saturday Workshops and Organizing for TAM Track**
Laura Zale, SEPTA

2:40   **Actionable TAMPs Track**
Matt Haubrich, Iowa DOT

2:50   **Risk and Resilience Track**
Emily Burns, City of Seattle

3:00   **Sustainability Track**
Victor Rivas, Jacobs

3:10   **Welcome to Massachusetts**
Jack Moran, Massachusetts DOT

3:20   **Discussion and Next Steps**
Matt Hardy, Spy Pond Partners

AASHTO Digital TAM Guide Update
Hackathon Opportunity

Hackathon
June 5-11, 2023

Kick-Off Meeting June 5
2:00pm ET

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Judging
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Presentations of Winners
July 9, 2023 at
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- **Proof of Concepts**—such as computer code to improve functionality;
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Focus Area Improvements

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2. More **practice examples** that connect with real data and tools.
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4. Linking **GIS/mapping** to the guide.
5. Use and application of **gamification**.
6. Introduction of **web-based training** functionalities.
7. Integration of **multimedia audio and video** into the delivery of content.
8. **Other ideas and concepts** to improve functionality.

*noun hack•a•thon: an event in which many people meet to engage in collaborative computer programming. Also known as a hack day, hackfest, datathon or codefest, a portmanteau of hacking and marathon—a hackathon is an event where people engage in rapid and collaborative engineering over a relatively short period of time such as 24 or 48 hours.

Register Here:

http://www.tamguide.com/hackathon/

hackathon@tamguide.com

Conference Introduction/Overview

(Laura Zale, SEPTA)

FHWA/AASHTO
Peer Exchange

Saturday, July 8, 2023 1:00 PM – 5:00 PM

Sunday, July 9, 2023 8:00 AM – Noon

In Conjunction with the National Conference - Boston, Massachusetts

The Art of Project Selection

Curious how agencies the country make project selections?

Wondering about the relationships between asset condition and other performance objectives such as safety, mobility, and air quality?

How are agencies prioritizing locations within an asset class and across classes?

Projects selecting for the new IIJA Protect Program (climate resiliency)?

How are agencies balancing competing objectives?

How are equity objectives being incorporated with TAM objectives?

How do you prioritize when there are conflicting needs?

Purpose of Peer Exchange

- Advance the state of the TAM practice
- Discuss the ingredients for good TAM based project prioritization and selection
- Gain knowledge of the resources that are available to support better prioritization
- Examples of how TAM-based prioritization has been integrated into agencies
- Balancing multiple objectives such as equity and asset condition
- Agencies will be invited to share their challenges, progress made, and ideas for improvements related to project prioritization.

Reserve Your Spot Today?

Saturday Workshops/Organizing for TAM

(Laura Zale, SEPTA)

Actionable Asset Management Plans

Please Plan to Partake in Pleasant Parley with Preeminent Professionals

Purpose

This track will focus on asset management plans, with a bias for action.

- Lectern Sessions
- Posters
- Panel Discussions
- Unconference-style facilitated conversation

Points of Interest

Sessions

- Actionable Asset Valuation

- All Together Now
  - TAM planning across modes and across agencies

- In The Weeds
  - Managing ancillary assets

Points of Interest

Sessions

- Effective Bridge Management

- Managing Linear Assets
  - Pavements, tracks

- Measuring TAMP Success
  - Reporting on our TAMPs

Particularly provocative possibility...

Actionable Asset Valuation

- Learn about NCHRP 23-06: *A Guide to Computation and Use of System Level Valuation of Transportation Assets*
  - NCHRP Web-Only Document 335
  - https://www.assetvalueguide.com/
- Examples of approaches to using Asset Valuation in asset management practice

Are you Pumped to Participate?

Risk & Resilience Track

Risk – its what's for dinner…

TAM Webinar 62 - TRB 14th TAM Conference Preview
Emily Burns – Seattle Waterfront Asset Management Program Manager

Visualizing Risk & Resilience Workshop

Sunday, 7/9, 1:30 – 5PM

- This hands-on participation required workshop, moderated by Matt Hardy, employs a friendly competition using visualization and business case story-telling to answer some of these questions:

  - What is the value of investing in a more resilient transportation system? How do you apply visualization techniques developed in the performance management space to communicate the importance of transportation resilience? What are some tools and techniques you could use to communicate the resilience business case to your leaders?

- Learn about results from NCHRP 20-127: Business Case and Communications Strategies for State DOT Resilience Efforts and NCHRP Synthesis 584: Visualization of Highway Performance Measures

- Following team presentations, experts and attendees will critique whether teams visualized and communicated risks, resilience needs, benefits, and associated metrics to the intended audience

R-1 Uncertain Risks: Getting Comfortable with Uncertainty Monday, 7/10, 10:30 - Noon

- Mini-workshop on tactical risk management facilitated by Todd Shepherd

- Participants will collaborate to learn about:

  - Setting up risk assessments, decision-making processes, performance management, and information system requirements to be aligned to capture data to feed back into decision-making models and demonstrate how Asset Management brings value to the organization

  - Getting comfortable with uncertainty and how to reduce uncertainty by quantitatively measuring something thought to be unmeasurable

  - Making better estimates and exploring where bad estimating comes from such as resistance to framing, overconfidence, risk perception, sunk cost resistance, and personal bias

  - Myths of the difficulties of measuring objectives

R-2 Building Infrastructure Resilience – How Do We Adapt to the Unknown Unknowns
Monday, 7/9, 1:30PM – 3:00PM

- Moderated by Prashant Ram in a lecture format with a facilitated panel discussion addressing key risk and resilience topics:

  - Impact of Wildfires on Pavement Systems and Transportation Infrastructure Assets—Prashant Ram and Amir Golalipour,

  - FHWA ShakeCast: An Automated warning system for monitoring seismic activity and alerting stakeholders to the possible need for post-event inspections—Drake Builta

  - Multi-modal resilience concerns in asset management—The Maryland Story: Meredith Hill and Sutapa Samanta

R-3 The Buck Starts Here: Using Risks to Inform Decisions
Monday, 7/10, 3:30-5:00PM

- Lecture format session moderated by William Johnson and designed to convey how to use risk to inform decision making in TAMPs, capital programs, and service delivery including the following presentations:
  - Rebekka Apardian tells us how Washington DOT incorporates risk workshops into the risk management process of asset management plans including highways, aviation, ferries, public transportation, and rail
  - Patrick Cowley shares how Utah DOT Manages asset risks through the TAMP
  - Hear about how to maximize capital spending by compiling data and developing tools to identify risks, inform Asset Management, and achieve resiliency objectives from Ister Morales and John Riggi
  - Herbert Higginbotham presents the Feedback Loop: Better Decisions for Service Delivery by Managing Asset Risk, Cost, and Performance

R-4 Visualizing and Communicating Risk: Telling the Story of Why it Matters
Monday, 7/10, 8:30 -10:30AM

- Podium presentations moderated by Emily Burns

- Frank Broen kicks off the session with visualization best practices from NCHRP Synthesis 584

- Hear from Matthew Hardy on the Visualizing Risk & Resiliency Workshop results and see the top three presentations – critique the visualizations and tell us what works and what doesn't for the intended audience

- Learn about who is doing risk visualization and storytelling in a way that has caught fire with both agency staff and leadership through NCHRP project 20-127 presented by Suseel Indrakanti, John Kaliski, and Mara Campbell

R-5 Learning from Others to Address Risk
Tuesday, 7/11, 10:30AM - Noon

- Session looks at how we can learn from our partners in academia, stormwater, and internationally to address and quantify risks

- Moderated by Mara Campbell, presentations to include:
  - Quantifying transportation resilience to flooding: A focus on community mobility presented by Cristina Torres-Machi

  - North Central Texas Regional Transportation and Stormwater Management Integration (TSI) Initiative Jeffrey Neal

  - Incorporating Resilience into Asset Management – International Experience Gerardo Flintsch

R-6: New Technologies Will Revolutionize the Use and Function of TAM in the Decision-Making Process: An Oxford-style Debate

- Join moderator Matthew Hardy for a unique take on an Oxford-style debate

- How will (or won't) new technologies revolutionize the TAM decision-making process?

- Presentations include:

  - Pennsylvania DOT's Development of a System for Recommending an Optimized Capital Program Incorporating Life Cycle Cost, Risk and Sustainability by Justin Bruner

  - Using digital twins for risk management by Bibhuti Aryal

  - Matt Haubrich confesses his skepticism to in applying BIM in practice

Sustainability Track

(Victor Rivas, Jacobs)

Ideas for extra-conference activities

- Jack Moran, MassDOT
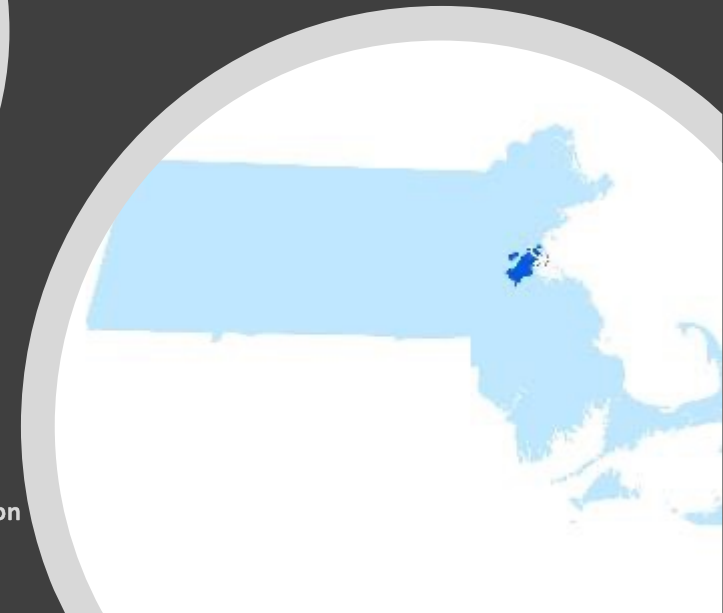
Ideas for your visit

Classic Boston Experiences

Museums

Boston Harbor

Urban Parks

Shopping

Transportation-adjacent adventures

2023 TRB Asset Management Conference – Boston

The Classics – Red Sox game at Fenway Park

Vs.

Saturday July 8, 410P
Sunday July 9, 135P

The Classics – Duck Tour

Guided amphibious tour of the City

Tours leaving from multiple locations

Book ahead!

The Classics – The North End

Boston's Little Italy

The Classics – Freedom Trail

2.5 Mile long marked path

16 historically significant stops

Plenty of options to enjoy all or part of it

Museums and Such!

Boston Public Library
Museum of Fine Arts
Institute of Contemporary Art
Isabella Stewart Gardner Museum
New England Aquarium
Museum of Science

Two if by sea – activities on the Boston waterfront

Harbor walk

USS Constitution Museum (museum open daily, actual ship closed Monday & Tuesday)

Boston Harbor Cruises

Shopping

Newbury Street

Quincy market

SoWa open market (Sundays only)

Transportation-adjacent adventures

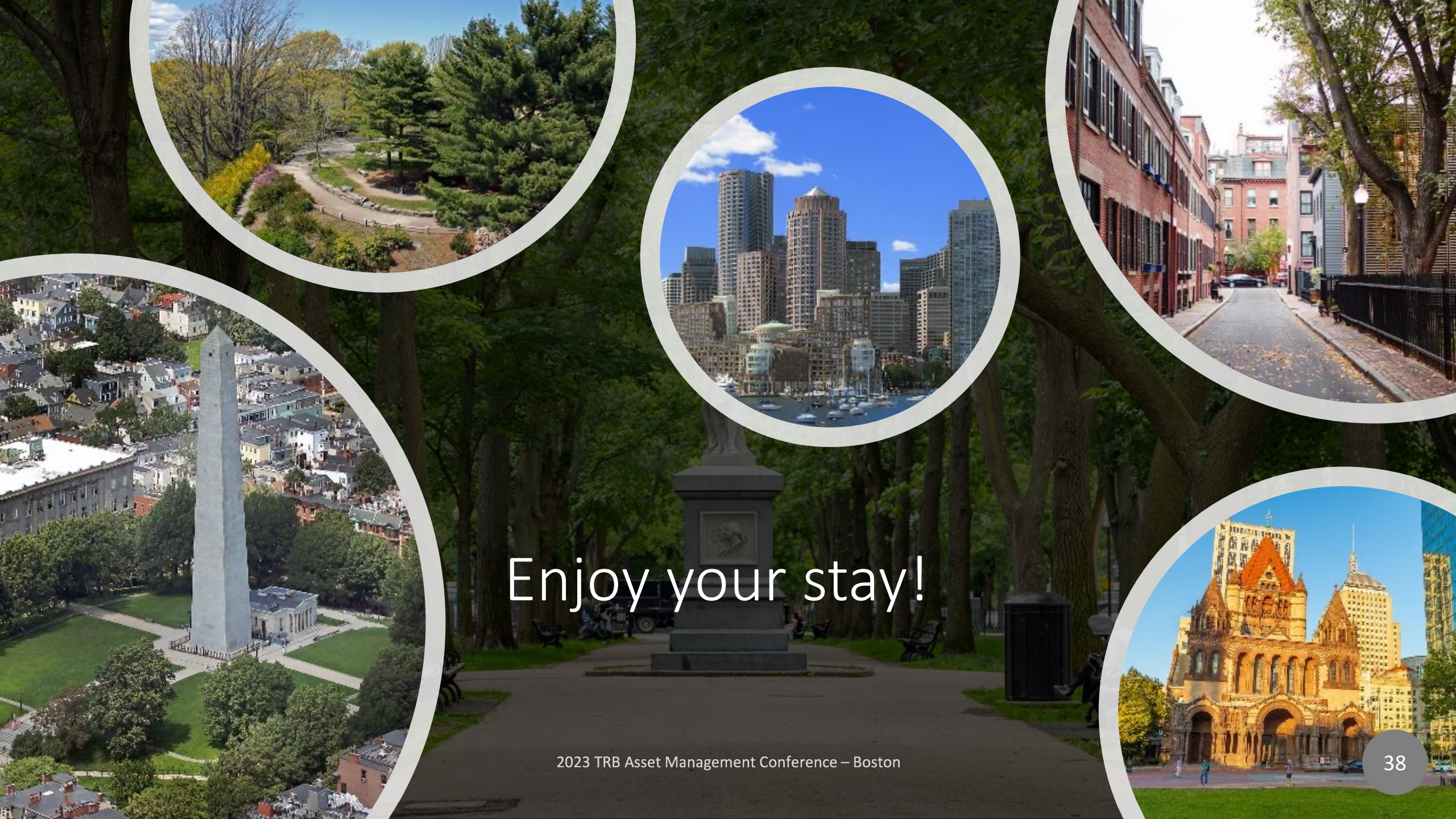Explore Somerville and/or Medford via the newly opened MBTA Green line extension

Borrow a Bluebike and ride the Southwest corridor, take the Orange line back

Walk the Rose Kennedy Greenway – explore the seaport!

Take the Mattapan High speed Line

Enjoy your stay!

Q&A and Discussion

Submit your questions using the Webinar's chat 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, June 21, 2023– 2:00 PM EST
Consistency Reporting

More to follow!

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