

# TAM Community and Resources

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AASHTO, TRB, AND BEYOND



# What is TAM?

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## AASHTO definition:

- 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.

## FHWA definition:

- A strategic and systematic process of operating, maintaining, and improving physical assets, with a focus on engineering and economic analysis based upon quality information, to identify a structured sequence of maintenance, preservation, repair, rehabilitation, and replacement actions that will achieve and sustain a desired state of good repair over the life cycle of the assets at minimum practicable cost.

# TAM is How We Do Business

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## **An approach to doing business and a decision-making framework that:**

- Covers an extended time horizon
- Draws from economics as well as engineering
- Considers a broad range of assets



## **TAM is Strategic**

- Focus on strategic goals, performance measures, and system performance
- All assets considered comprehensively
- Compare performance with desired measures and targets
- Value for money

# TAM Principles

1. Policy-driven;
2. Performance-based;
3. Risk-based;
4. Strategically aligned with agency priorities;
5. Transparent;
6. Information-driven/evidence-based;
7. Option-oriented; and
8. Continuously improved.

# How Do We Get Started?

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1. What is the current state of my assets? This includes thinking about what you own, where it is located, what condition it is in, what is the remaining useful life, and the remaining economic life.
2. What is my required level of service/performance? This about the demand for services by stakeholders, any regulatory requirements, and the actual performance.
3. Which assets are critical to sustained performance? Consider how an asset could fail and the likelihood of failure. What is the cost to repair? What are the consequences of failure?
4. What are my best “Operations and Maintenance” and “Capital Improvement” investment strategies? Think about what, if any, alternative management options exist, and which are most feasible for the organization.
5. And, finally, what is my best long-term funding strategy?

## What If I Want To Learn More?

Every state is required to have a TAMP. Someone at your agency led that effort. Make friends with that person.

- Handy list:

<https://www.fhwa.dot.gov/infrastructure/asstmgmt/amcocontacts.cfm>

Check out the following slides to learn more about:

- The TAM Community
- Ways to learn more about TAM
- TAM Resources
  - Research
  - Tools
  - Guides

# Community – Groups

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## AASHTO Subcommittee on Asset Management

- Other Committee on Performance Based Management (CPBM) subcommittees
  - Organizational Management
  - Enterprise Risk Management
  - System Mobility & Emerging Technology (joint)

## TRB Standing Committee on Transportation Asset Management (AJE30)

- Now part of the Executive Issues Section in TRB

## FHWA's TAM Expert Task Group (ETG)

- Reports: <https://www.fhwa.dot.gov/asset/etg>

## PIARC Technical Committee on Asset Management (TC 3.3)

- PIARC AM Guide: <https://road-asset.piarc.org/en>

# Community – Peer to Peer

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## Monthly joint virtual meetings of AASHTO and TRB Committees

- Develop Research
- Share updates
- Forum for members to raise questions and share practices

## Biennial National Conference on Asset Management

- Organized by TRB and funded by a Pooled Fund study
- Over 400 TAM professionals for 3 days of workshops and sessions
- Next: 2021 in Boston ([www.trb.org/Conferences/AssetMgt2020.aspx](http://www.trb.org/Conferences/AssetMgt2020.aspx))

## Annual Peer Exchanges – FHWA

Committee meetings, other events



# Community

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## AASHTO/FHWA TAM Webinar Series

- Even-numbered months, since late 2012
- #46 in the series: **TAM & System Resilience** – Oct 21, 2020
  - Sign up: <https://www.tam-portal.com/event/>
- Q: Should we have a topic on TAM and TSMO coming out of this peer exchange?

## Strategic Planning

- Leveraging NCHRP 20-123 funding (support for AASHTO committees) to develop a strategic plan
  - Currently about 12 months into the project – expected completion in early 2021
- Continue connection between AASHTO and TRB efforts

## Research

- Dozens of projects over the past 20 years

# Resources – Training

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## Training

- NHI Courses
  - 136113 Transportation Asset Management Overview (WBT)
  - 136106C Introduction to a Transportation Asset Management Plan (WBT)
  - 136106A Introduction to Transportation Asset Management with Workshop (ILT)
  - 136106B Developing a Transportation Asset Management Plan (ILT)
  - 136002A Introduction to Financial Planning for Transportation Asset Management (WBT)
  - 136002 Financial Planning for Transportation Asset Management (ILT)
  - 136065 Risk Management (ILT)
- AASHTO TC3 **\*\*Coming Soon\*\***
  - 2 part web-based training on Transportation Asset Management
  - Web-based course on multi-objective decision analysis (MODA)

# Resources – AASHTO and FHWA

## AASHTO TAM Portal ([www.tam-portal.com](http://www.tam-portal.com))

- Documents, including all kinds of TAM Plans
  - (13 documents on the topic of managing ITS assets)
  - Guides and reports
- Tools
  - Assessment tools
  - TAMP Builder
  - Digital TAM Guide (*more about that later*)
- Calendar of events
- TAM “Research Roadmap”

## FHWA TAM Web Site ([www.fhwa.dot.gov/asset/](http://www.fhwa.dot.gov/asset/))

- Guidance for developing TAMPs
- Training, tutorials and guides on specific TAM-related topics



<https://www.tamguide.com/>

Resources – Digital TAM  
Guide

# Resources – TAM Guide



Digital TAM Guide ([www.tamguide.com](http://www.tamguide.com))

- Read on any device!
- Fully searchable!
  - [Operations](#)
- Practice examples & case studies!
- How-to Guides!
- Checklists!
- Topic view!
  - adjustable level of familiarity!
- Download any/all as PDF!
- FREE!!!

# Questions for you

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CPBM developed & prioritized research into the linkage between TSMO and TAM

- NCHRP 08-138: Connecting Transportation Asset Management (TAM) and Transportation System and Management Operations (TSMO)  
(<https://apps.trb.org/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=4949>)
  - \$500k
  - Panel forming now
  - How can we connect NOCoE, your community, and this peer exchange with the research?

How can we best connect the TSMO and TAM communities?

Should we have a TSMO-focused webinar in the TAM webinar series?

Thanks!



Matt Haubrich  
Transportation Asset Management Administrator

