Transportation Asset Management Webinar Series
Webinar 64

Highlights from the TRB TAM Conference

Sponsored by FHWA and AASHTO

U.S. Department of Transportation
Federal Highway Administration

AASHTO
The Voice of Transportation

August 16, 2023

FHWA/AASHTO Asset Management Webinar Series

- This is the 64th 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
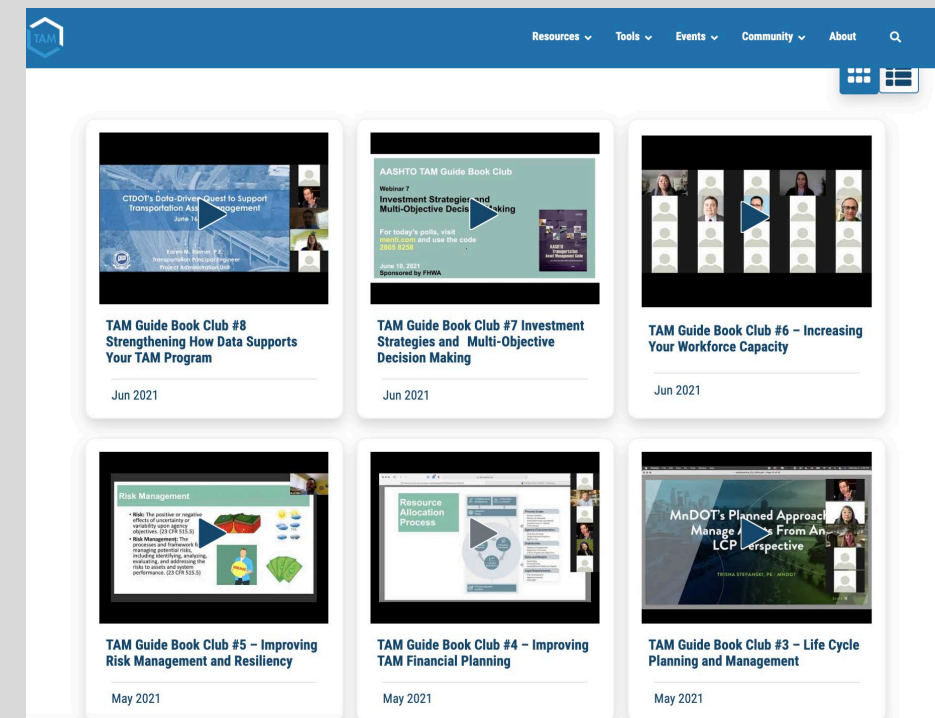
Welcome

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
- FHWA Asset Management Hub: **https://www.fhwa.dot.gov/asset/pubs.cfm**

Webinar Objectives

- Hear about highlights of the 14th National Conference on Transportation Asset Management held July 2023

- Discuss implementing ideas from the conference

Webinar Agenda

2:00 **Welcome, Overview, and Agenda**
Matt Haubrich, AASHTO
Tashia Clemmons, FHWA
Hyun-A Park, Spy Pond Partners

2:10 **Conference Summary**
Laura Zale, SEPTA

2:25 **Peer Exchange Highlights**
Mike Johnson, Caltrans

2:40 **Infrastructure and Risk/Resilience Innovations**
William Johnson, Colorado DOT

2:55 **Organizations and People Innovations**
Matthew Hardy, Spy Pond Partners

3:10 **Q&A**
Hyun-A Park, Spy Pond Partners

3:20 **Discussion and Wrap-up**
Hyun-A Park, Spy Pond Partners

SEPTA

TRB 14th Conference on Transportation Asset Management: Summary
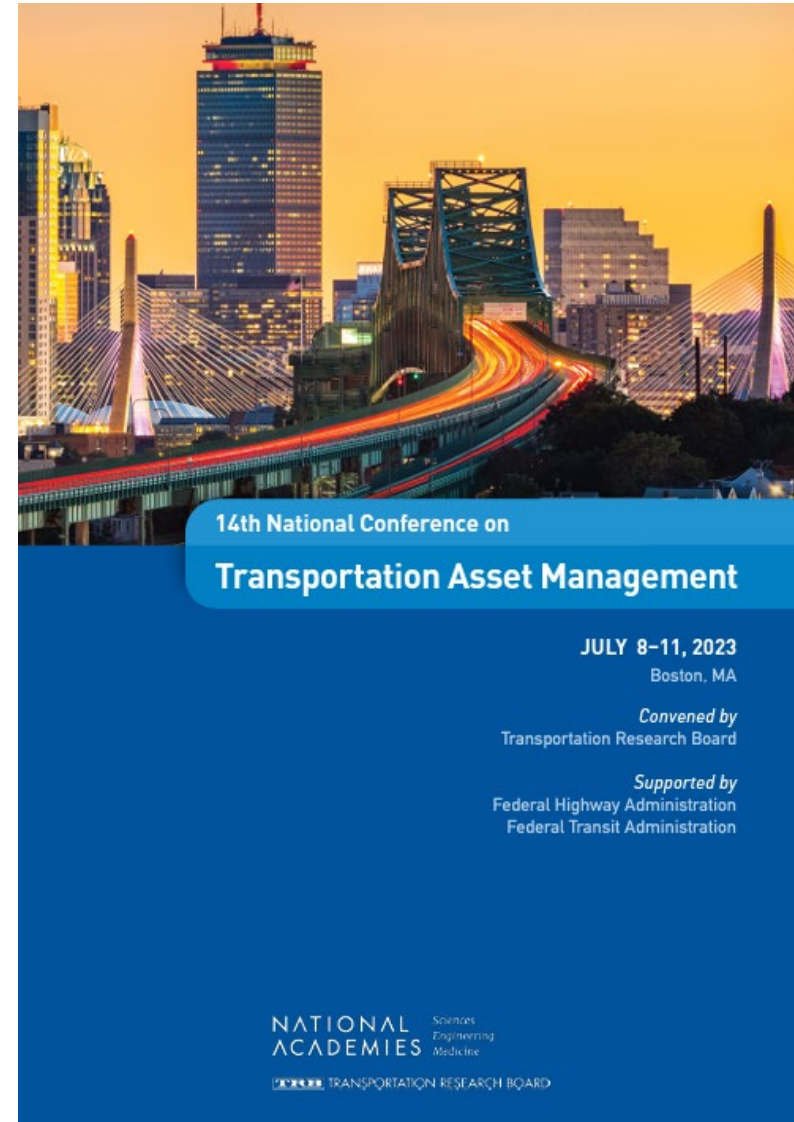
Laura J. Zale – Senior Director, Capital Program Support

July 11, 2023

TRB TAM 2023

Boston, Massachusetts

- 325 Attendees
  - DOT
  - Transit Agencies
  - Local Agencies
  - Practitioners
  - Students

- One Conference with Several Components
  - AASHTO Peer Exchange
  - FTA TAM Roundtable
  - Preconference Workshops
  - Sessions and Workshops
  - Hackathon
  - TAM Competition

14th National Conference on
Transportation Asset Management

JULY 8-11, 2023
Boston, MA

Convened by
Transportation Research Board

Supported by
Federal Highway Administration
Federal Transit Administration

NATIONAL ACADEMIES *Sciences Engineering Medicine*

TRANSPORTATION RESEARCH BOARD

Conference Goals

Planning Committee Objectives

- Give attendees tools and techniques to advance their TAM Practice

- Demonstrate tactical successes

- Identify ways to advance the TAM field

- Interactive content

Conference Structure

Planning Committee Objectives

- Four "traditional" tracks
  - Organizing for TAM
  - Actionable Plans
  - Risk
  - Sustainability

- One "Emerging Topics" track

- Guest speakers from other industries

- Balanced presentations with opportunities to be interactive

Takeaways for Future Asset Management Events

Showing Progress Takes Time.

Advance the Conversation Outside of the "TAM" Silo

Encourage Participation from All Levels of the Practice.

Showcase the Host Agency

Find the "Bridgeable Gaps."

SEPTA

The Art of Project Selection

AAHSTO/FHWA sponsored Peer exchange

Boston, Massachusetts on July 8-9, 2023

Presented by - Michael Johnson

California Department of Transportation

Acknowledgements

- FHWA and AASHTO for sponsoring the Peer Exchange

- TRB for supporting us appending this Peer Exchange on to the National conference

- Spy Pond Partners for supporting the development and documentation of the Peer Exchange

- A Peer Exchange presenters and participants

Introduction

- Agencies are faced with competing priorities that require broader thinking when selecting projects
- Transportation Performance Management
  - Safety
  - Pavement and bridge conditions
  - Travel time reliability
  - Air quality
- Climate Adaptation
  - Agencies are experiencing transportation impacts across the nation.
- Equity
  - Agencies are looking to incorporate equity factors into their project decision making
- Funding
  - IIJA introduced new programs and funding opportunities

Peer Exchange Participants

◈ Peer exchange participants include State DOT's, cities, oversight agencies, academics

◈ Approximately 65 attendees

Opening Session

◈ Featured presentations from 4 agencies outlining how they currently select projects

    ◇ Lina Chapman and Brad Sharlow (Michigan DOT),

    ◇ Shaker Rabban (Minnesota DOT)

    ◇ Justin Bruner (Pennsylvania DOT)

    ◇ Jonathan Fok (Washington DOT)

◈ Take aways

    ◇ Coordination across a broad stakeholder groups and gaining executive support

    ◇ Develop a constrained investment plan to set reasonable expectations

    ◇ Some agencies have established formulas or scoring methods to help prioritize projects

Project Prioritization Exercise

- Teams were asked to prioritize 8 projects given a set of goals, performance targets and expected project outcomes.

- Teams were asked to apply a constrained budget to select projects

- Exercise was designed to spur discussion about trade-offs between safety, condition, climate adaptation, equity and usage.

- Take Aways:

- Varied selections from the teams

- Projects without quantified performance targets faired pretty well

- No consistent approach taken by teams and outcomes reflect the varied approaches

Project Group Exercise

Selections varied significantly among the teams

Examples -
Project D was the only identified disadvantaged community project

Project A was a safety project

Project E was addressing climate adaptation need

Project G – Bike and ped project

Project H – Congestion reduction project

Project	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Avg. Rank	% Selected
A		2	3	1	1	1	1	1	1.4	88%
B	6							4	5	25%
C	5			1	5		5	5	4.2	63%
D			2		3		3		2.7	38%
E	3	4			4	3	4		3.6	63%
F	2	3		1		2		3	2.2	63%
G	1			1	2		2	2	1.6	63%
H	4	1	1	1		4			2.2	63%

One Success Story

◈ We asked all participants to identify one area of success

◈ Themes:

  ◈ Communication (Internal and External stakeholders)

  ◈ Importance of a champion and leadership support

  ◈ Following a data driven objective project selection process versus political choice

  ◈ Use desired performance outcomes to tailor projects

  ◈ Importance of asset preservation

  ◈ Asset Management expanding beyond pavement and bridges

Ways to Improve the Practice

- Work Type Tracking & Forecasting
  - Collect better data to develop better models
- Need More Opportunities to Learn Cross-discipline
- Leverage AASHTO to Develop Consistency
  - B.P. for TAMPs
- FMIS & Track Different Colors of Money to better understand how money is being spent on TAM
- Framework for Addressing Fed Grants in Long-Term Planning

Peer Exchange Summary Report

◈ Summary report of the Peer Exchange is in the final review process

◈ The final report will be sent to all participants and posted on the TAM Portal

2023 Transportation Asset Management Peer Exchange

The Art of Selecting Projects

14th National Conference on
Transportation Asset Management
Boston, MA • July 8–11, 2023

Infrastructure and Risk and Resilience Innovations Highlights

William Johnson

Colorado DOT

Infrastructure and Risk and Resilience Innovations Highlights

At-A-Glance:

- [Workshop: Risk & Resilience Visualization](#)
- [Uncertain Risks: Getting Comfortable with Uncertainty](#)
- [Sustainability and Resilience](#)
- [Building Infrastructure Resilience: How Do We Adapt to the Unknown Unknowns?](#)
- [The Buck Starts Here: Using Risks to Inform Decisions](#)
- [Visualizing and Communicating Risk: Telling the Story of Why it Matters](#)
- [It's What's For Dinner! Your One-stop Shop for Interdisciplinary Risk Management](#)
- [Resilience Planning Framework for Transportation Systems](#)

- [New Technologies will Revolutionize the use and Function of TAM in the Decision-Making Process: An Oxford-style Debate](#)

Infrastructure and Risk and Resilience Innovations Highlights

Workshop: Risk & Resilience Visualization

Lead Presenter: Emily Burns
Waterfront Asset Management Program Manager
Seattle Office of the Waterfront & Civic Projects

1:30: Introductions and Overview

1:40: Part 1—Research Findings

- Visualization of Highway Performance Measures
- Business Case and Communications Strategies for State DOT Resilience Efforts
- North Road Project Overview

2:30: Part 2—Small Group Exercise

3:45: Part 3—Report Out

4:30: Review the Results – Tabulate Table Winners

4:45: Awards & Close Out

NCHRP Synthesis 584 Visualization of Highway Performance Measures

Visualization & Business Case Competition!

Approach
- Team up with a Table Captain
- Chose your roles
- Choose your audience
- Spend 75 minutes applying the Resilience Capability Maturity Model and Visualizing Highway Performance research to tell a compelling story on the importance of resilience using provided data

Audience Choices
- Community
- Internal executives and policy makers
- Technical / Professional staff (engineers, project managers, and planners)
- Elected officials

Player Roles
1. Performance Manager
2. Risk Manager
3. Asset Owner
4. Maintenance Manager
5. Communication Manager
6. Governor's Office Representative
7. Transit Agency Representative
8. MPO Representative/Planner
- Oversight Board - External Stakeholder
- Local Agency Representative
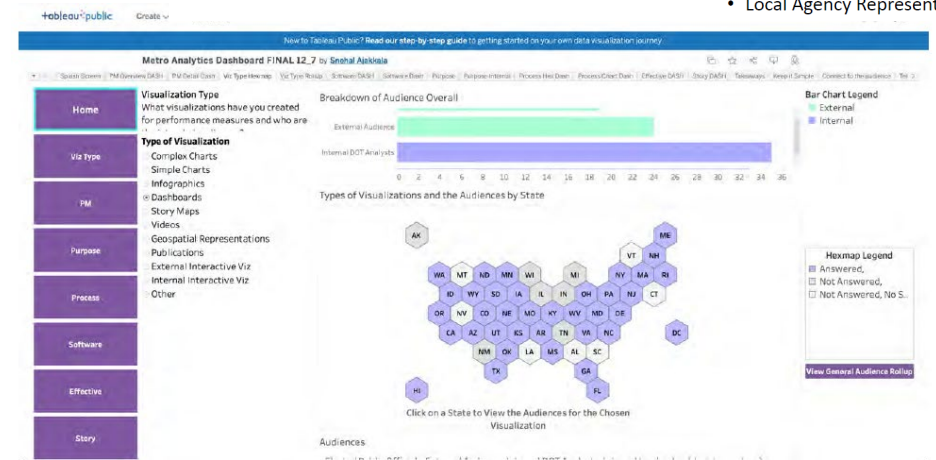
Infrastructure and Risk and Resilience Innovations Highlights

Uncertain Risks: Getting Comfortable with Uncertainty

Lead Presenter: Todd Shepherd

References

How to Measure Anything: Finding the Value of Intangibles in Business

The Failure of Risk Management: Why It's Broken and How to Fix It

By Douglas Hubbard

Five Principles to help you make better decisions

1. The act of measurement reduces uncertainty, which in turn helps us make better decisions.

2. When you know very little, even small measurements greatly reduce uncertainty.

3. By measuring something, you are paying for uncertainty reduction.

4. You can quantify the value of further measurement

5. You only need further measurements if you're uncomfortable with the risk of a wrong decision.
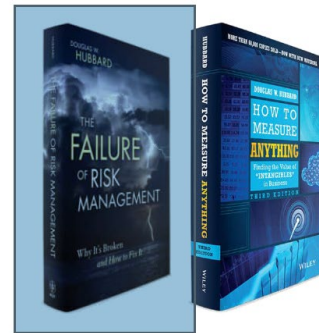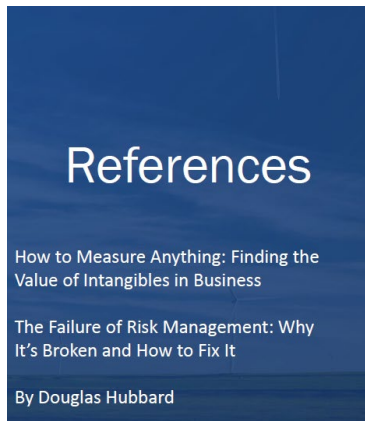
Infrastructure and Risk and Resilience Innovations Highlights

Sustainability and Resilience

Lead Presenter: Gerardo Flintsch
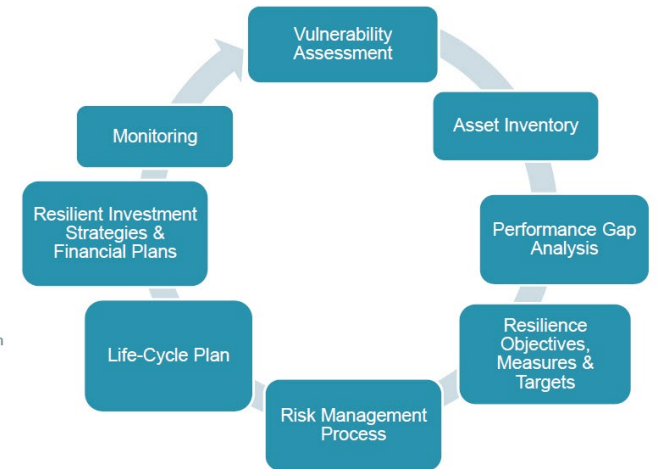Professor & CSTI Director
Virginia Tech

RESILIENCY FRAMEWORK

1. Select Stressor(s)
2. Identify Climate / Weather Risk
3. Establish Impacts
4. Identify Proxy Indicators
5. Identify Physical Assets at Risk
6. Root Cause Analysis
7. Identify & Select Response Strategies
8. Review Additional Considerations
9. Identify Program-Ready Projects (Planning)

Net Zero Highways
2030/2040/2050 Plan

https://fhwatest.fhwa.dot.gov/asset/pubs/hif23010.pdf

U.S. Department of Transportation
Federal Highway Administration

- Vulnerability Assessment
- Asset Inventory
- Performance Gap Analysis
- Resilience Objectives, Measures & Targets
- Risk Management Process
- Life-Cycle Plan
- Resilient Investment Strategies & Financial Plans
- Monitoring

Infrastructure and Risk and Resilience Innovations Highlights

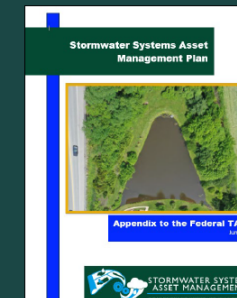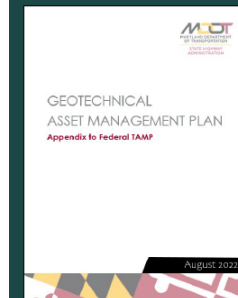## Building Infrastructure Resilience: How Do We Adapt to the Unknown Unknowns?

Lead Presenter: Prashant Ram

Applied Pavement Technology, Inc. (APTech)

Intensity and Size of Wildfires are Increasing

U.S. Department of Transportation
Federal Highway Administration

Turner-Fairbank
Highway Research Center

MDOT
MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

ASSET MANAGEMENT
PRESERVING ASSETS / OPTIMIZING PERFORMANCE
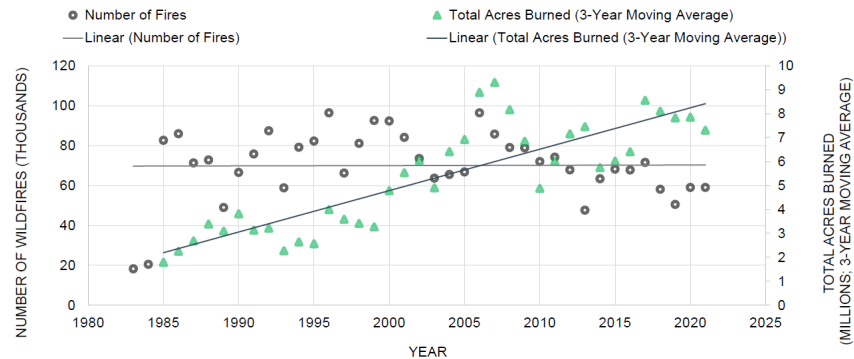
Critical (Ancillary) Assets

Asset Resiliency Challenges

➤ Competing Philosophies of Resiliency & State of Good Repair
➤ Sustained Funding
➤ Flexible Funding

Addressing the Challenges

➤ 2022 NHS TAMP included MDOT SHA AMPs
➤ Partnering with FHWA Maryland Office
  ➤ Capitalize on current FHWA approved Resilience Funding
  ➤ Statewide Planning & Research (SPR) funding for ancillary asset data technology and SGR Planning
  ➤ Innovative project bundling for grant competitiveness

Infrastructure and Risk and Resilience Innovations Highlights

The Buck Starts Here: Using Risks to Inform Decisions

Lead Presenter: William Johnson
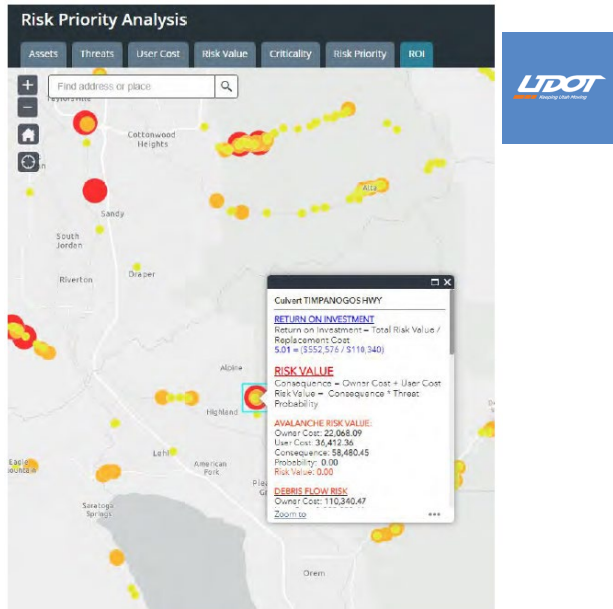Performance and Asset Management Branch Manager
Colorado DOT

Risk Priority Analysis

| Assets | Threats | User Cost | Risk Value | Criticality | Risk Priority | ROI |

Culvert TIMPANOGOS HWY

RETURN ON INVESTMENT
Return on Investment = Total Risk Value / Replacement Cost
5.01 = ($552,576 / $110,340)

RISK VALUE
Consequence = Owner Cost + User Cost
Risk Value = Consequence * Threat Probability

AVALANCHE RISK VALUE:
Owner Cost: 22,068.09
User Cost: 36,412.36
Consequence: 58,480.45
Probability: 0.00
Risk Value: 0.00

DEBRIS FLOW RISK
Owner Cost: 110,340.47
Zoom to

RPTA (Bus) 20-Year Summary

Baseline Expected Funding	CAP $750M	PRF 96%	
	MAI $680M	FTE 164	
"Downpour" Severely Reduced Capital & Maintenance	CAP $350M	PRF 29%	
	MAI $180M	FTE 20	
"Drizzle" Moderately Reduced Capital & Maintenance	CAP $680M	PRF 70%	
	MAI $440M	FTE 118	
"Partly Cloudy" Reduced Maintenance Only	CAP $750M	PRF 83%	
	MAI $440M	FTE 118	
"Partly Sunny" Reduced Capital Only	CAP $680M	PRF 88%	
	MAI $680M	FTE 164	

CAP 20-Yr Asset Capital Spend   MAI 20-Yr Asset Maintenance Spend   PRF Yr 20 Avg Asset Performance Score   FTE Yr 20 Maintenance FTE Count

0   20   40   60   80   100

Methodology

Phase 1
- Identify key stressors and their associated weather-related risk
  - Identify vulnerable assets
- Identify impact to the system
- Identify case study area(s)
- Compile data
  - Identify proxy indicators
  - Identify <u>root cause</u> – consider different stages of asset lifecycle (creation, maintenance, preservation, rehabilitation/reconstruction)

Phase 2
- Identify response strategies and selection criteria

Phase 3
- Incorporate assessment results in decision making (prioritization and plan)

GANNETT FLEMING

Infrastructure and Risk and Resilience Innovations Highlights

Visualizing and Communicating Risk: Telling the Story of Why it Matters
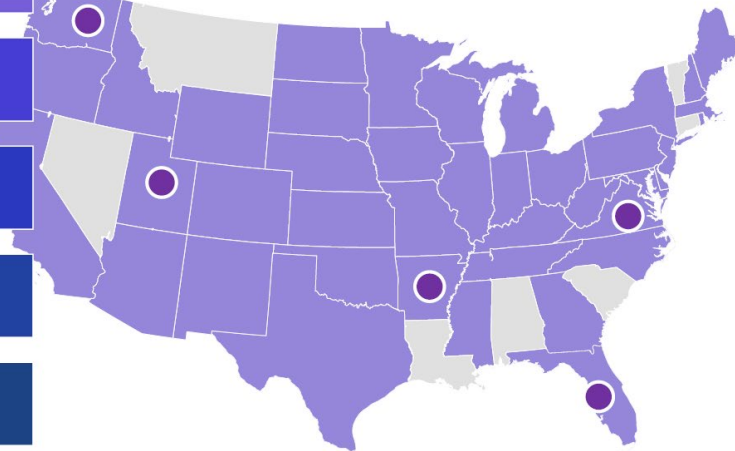

Lead Presenter: Emily Burns
Waterfront Asset Management Program Manager
Seattle Office of the Waterfront & Civic Projects

NCHRP Synthesis 584 Visualization of Highway Performance Measures

Tell a clear story

A dashboard that supports the leadership's message can help focus the organization.

- Keep it simple.
- Tell a clear story.
- Resonate with the audience.
- Make data transparent.
- Leadership matters.

5 State Stories

SPLASH SCREEN

STRATEGIC GOALS
3 Core measures + Funding + Projects

TACTICAL MEASURES AND METRICS
16 Specific measures

NESTED DASHBOARDS
Analyst Sign in for more detail

4 REGIONAL DASHBOARDS
5 Tabs of detail for each

Infrastructure and Risk and Resilience Innovations Highlights

## It's What's For Dinner! Your One-stop Shop for Interdisciplinary Risk Management

Risk & Resilience-based approaches in Asset Management

Lead Presenter: Mara Campbell
Global Technology Leader
Jacobs

PIARC
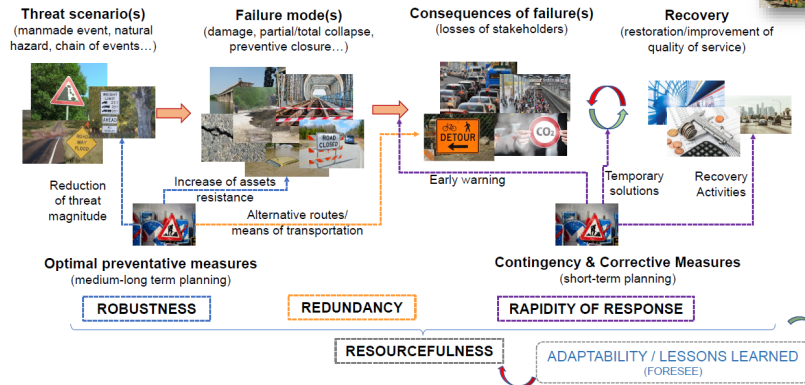
VT TRANSPORTATION INSTITUTE — Center for Sustainable and Resilient Infrastructure

North Central Texas Council of Governments

Flooding significantly reduces number of trips and cumulative metrics of time and distance traveled
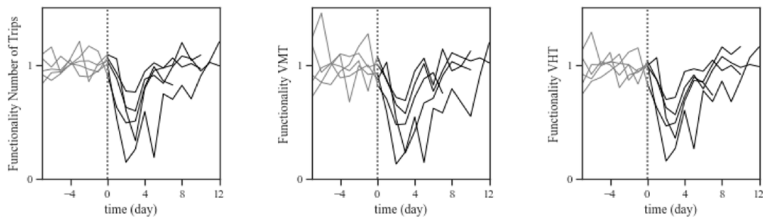
University of Colorado **Boulder**

## Integrated Transportation and Stormwater Infrastructure (TSI) Initiative

- Integrate stormwater management, urban development, transportation, and environmental planning
- Develop plan for risk awareness and resiliency
- Identify impacts and alleviate risks from flooding
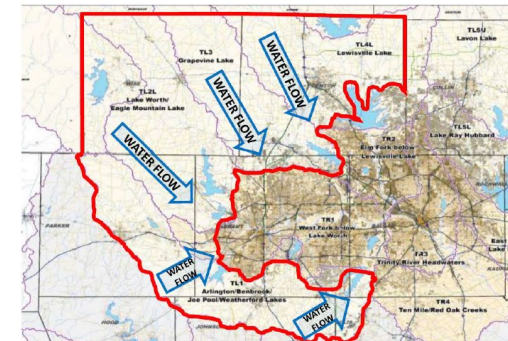
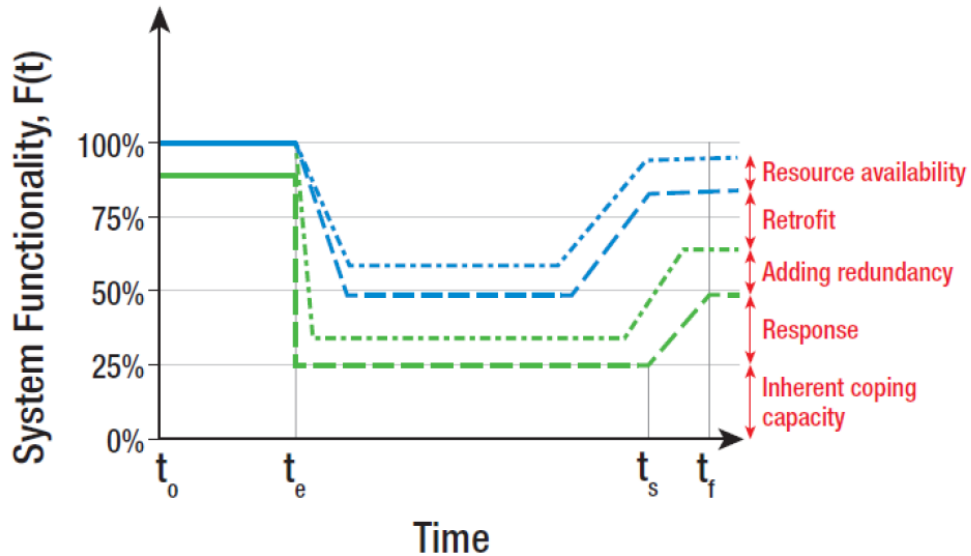# Infrastructure and Risk and Resilience Innovations Highlights

Resilience Planning Framework for Transportation Systems
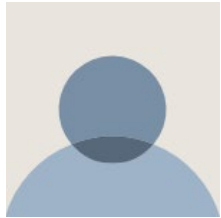
Lead Presenter: Victor Rivas
Asset Management Consultant
Jacobs Engineering Group Inc.

AOC SYSTEMS CONSORTIUM
New York | Sydney

Contribution to Resilience of Different Actions

- Resource availability
- Retrofit
- Adding redundancy
- Response
- Inherent coping capacity

Adapted from Faturechi, R., and E. Miller-Hooks. 2014. "Mathematical Framework for Quantifying and Optimizing Protective Actions for Civil Infrastructure Systems." *Computer-Aided Civil and Infrastructure Engineering Systems: Special Issue on Sustainability and Resilience of Spatially Distributed Civil Infrastructure Systems* 29:572–589.

Systems approach to complexity: combining viewpoints

What is a Systems approach?

Complex environments are, by definition, too complicated for any one person to grasp fully..
Each of us then draws conclusions based on incomplete pictures.
[W]hen faced with complexity, ..the better approach...[is] to focus..on techniques to deal with **combining different viewpoints.**

Ed Catmull, Co-founder Pixar Animation Studios

Systems techniques map relationships, highlight interaction points
-- capturing and synthesizing cross-functional, diverse contributions

Systems approaches enable 'seeing differently'

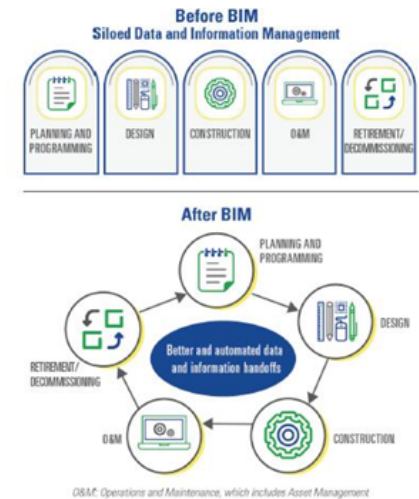# Infrastructure and Risk and Resilience Innovations Highlights

New Technologies will Revolutionize the use and Function of TAM in the Decision-Making Process: An Oxford-style Debate

Lead Presenter: Matthew Hardy
Senior Manager
Spy Pond Partners

Where's the Value?

- Is this data cycle realistic?
  - Depends on data maintenance over a long period, potentially decades.
  - Can we predict data needs 20+ years from now?
    - What is the cost to maintain the data?
- Does the Operations/Maintenance phase need the same level of detail as Design?

Before BIM
Siloed Data and Information Management

PLANNING AND PROGRAMMING | DESIGN | CONSTRUCTION | O&M | RETIREMENT/DECOMMISSIONING

After BIM

Better and automated data and information handoffs

PLANNING AND PROGRAMMING | DESIGN | CONSTRUCTION | O&M | RETIREMENT/DECOMMISSIONING

O&M: Operations and Maintenance, which includes Asset Management

© HDR 2019.

Figure 1. Illustration. Silos versus collaborative use of interoperable data.[1]

From FHWA-HRT-21-064: Advancing BIM for Infrastructure: National Strategic Roadmap.
https://www.fhwa.dot.gov/publications/research/infrastructure/pavements/21064/21064.pdf

14th National Conference on
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Organizations and People Innovations

Matthew Hardy, Ph.D.
Senior Manager
Spy Pond Partners

Organization and People Innovations Highlights

At-A-Glance:

- Leveraging TAM to Drive Organizational Change

- TAM-Travel: A Conversation with the Past, Present, and Future of TAM

- Putting People at the Center of Your Program Implementation

- Achieving Goals through Effective Program Management

- The Role of the Asset Management Champion & Their Team

- The Relational Coordination Factor

- Turning Your Conference Learning into Organizational Change

- Hot Tub TAM Machine

Organization and People Innovations Highlights

Leveraging TAM to Drive Organizational Change

NMDOT's Asset Management Executive Steering Committee and the Development of the 2022 TAMP

Monday, July 10, 2023

Virginia Stubella
NMDOT TPM Manager

TRB 14th Transportation Asset Management Conference

Practical Experiences using the AASHTO TAM Data Guide to Sustain and Advance TAM Programs

July 2023
Boston, MA

UDOT
Keeping Utah Moving

TAM is Data and Analysis Intensive

Is your agency effectively using data and information systems to support its TAM program?

TAM Data Needs
- Asset Inventory
- Asset Condition & Performance
- Location Referencing
- Design Standards
- Maintenance and Project Information
- Agency Financials
- Demand Forecasts
- Environmental Data
- Decision-Maker Priorities
- Public Perception
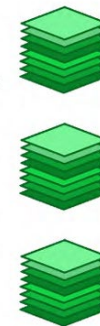
TAM Data Uses
- Optimize Maintenance, Rehabilitation, and Improvement Strategies
- Prioritize TAM Resource Allocation
- Support Agency Planning and Programming
- Report Condition, Performance, and Accomplishments
- Ensure Decision-Making Accountability and Transparency

Organization and People Innovations Highlights

TAM-Travel: A Conversation with the Past, Present, and Future of TAM

Lead Presenter: Simon Smith
Technical Director (North America)
AMCL

In the decade since MAP-21 the application of AM within the transportation industry has increased significantly, but not without lessons learned along the way. This panel facilitates a discussion between industry practitioners in 2013, today, and 2033 to consider what they've learned and their aspirations for AM in the future.

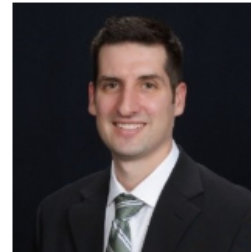# Organization and People Innovations Highlights

Putting People at the Center of Your Program Implementation

Lead Presenter: Laura Zale
Senior Director, Capital Program Support
Southeastern Pennsylvania Transportation Authority

Lead Presenter: Louis Feagans
Managing Director of System Performance and Transportation Policy
Indiana Department of Transportation

Lead Presenter: Cody Barrett
Principal Technologist
HNTB Corporation

Lead Presenter: Hugh Quinn
Deputy Director Configuration Engineering
MBTA

Lead Presenter: Mark Ricketson
Program Manager
Massport

Organization and People Innovations Highlights

Achieving Goals through Effective Program Management

Lead Presenter: Justin Barclay
Asset Management Manager
JMT

Lead Presenter: Maxwell Brown
Senior Consultant
AMCL

Lead Presenter: Jack Smith
Assistant Planning/Asset Management Engineer
North Dakota Department of Transportation

Planning for Uncertainty

We don't know what the future will hold. But we recognize that North Dakota is changing. Between now and 2045, we may see shifts in the places we live, the jobs we work, and the ways we choose to get around. Innovations in transportation will change our vehicles, our infrastructure, our information, and NDDOT's business model.

Through this planning process, we explored different alternative futures for North Dakota. These scenarios looked at what might happen should the future bring renewed opportunities for rural communities, continued growth in city centers, or rapid technological transformations in our daily lives.

What is happening in North Dakota already?

Transportation Connection provides a flexible framework to guide transportation decisions and investments that will shape North Dakota over the coming decades. NDDOT and our transportation planning partners will remain nimble, modernize how we operate, and invest in our data and our organizations in order to deliver a safe, innovative, and connected future.
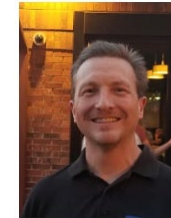
Alternative Future Scenarios

RURAL RENAISSANCE
Rural areas become communities of choice

CITIES & CENTERS
Urban areas grow quickly and become the centers of the state

SMART & CONNECTED
Innovation accelerates and we live in a tech-driven future

GHOST TOWNS
Economic downturns greatly reduce quality of life for North Dakotans

Integrating Long Range Transportation Plan Scenarios into TAMP Gap Analyses

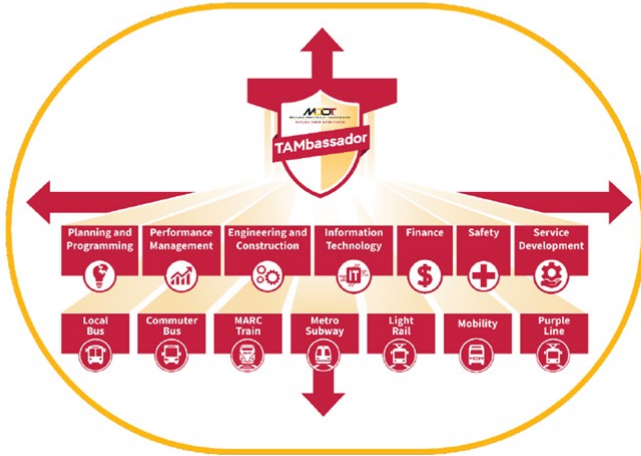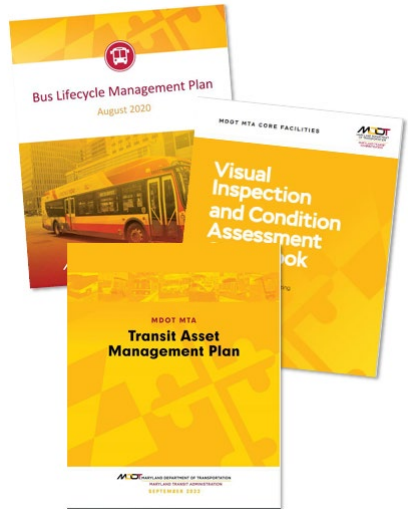Jack Smith P.E. – North Dakota Department of Transportation
July 11, 2023 – Boston MA

Organization and People Innovations Highlights

The Role of the Asset Management Champion & Their Team

TAMbassador Program

Lead Presenter: Justin Barclay
Asset Management Manager
JMT

Lead Presenter: Laura Zale
Senior Director, Capital Program Support
Southeastern Pennsylvania Transportation Authority

Improving Alignment with Agency Goals and Plans

Lead Presenter: Lou Cripps
Director, Asset Management
RTD

Takeaways

1. Commitment Is Earned, Not Given
2. Stay Focused And Run The Script
3. Label and Manage Our Inputs
4. Do the Next Right Thing
5. Call To Action

Takeaway 2 – Stay Focused & Run the Script

"If only…"

Excuse
- We had more resources
- We had more staff
- We had more time

Blame
- They understood
- We had leadership commitment

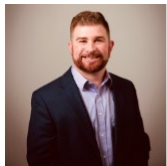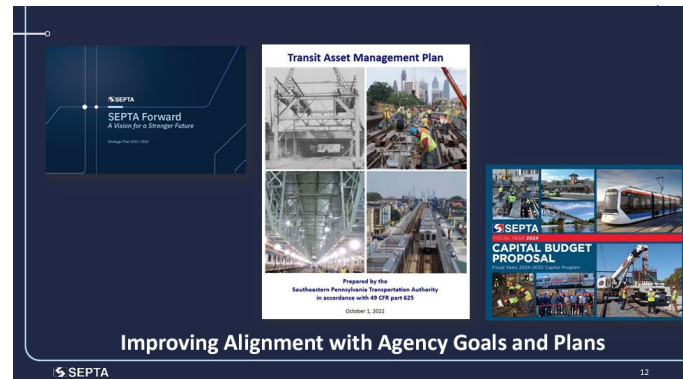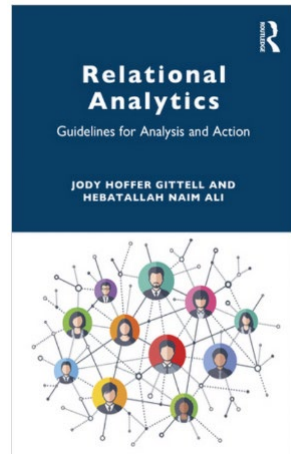| Purpose	Management System Deficiency	Detach / Run the Script	Adjust / Action (when we…)
	Trigger	**Analyze**	**Execute**

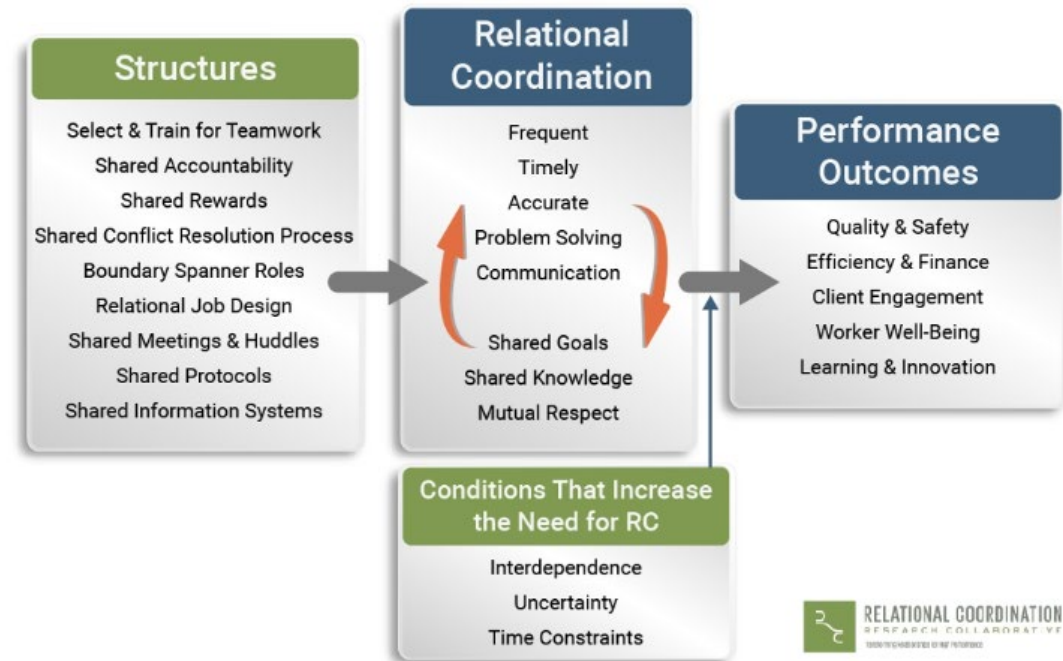# Organization and People Innovations Highlights

The Relational Coordination Factor

Lead Presenter: Jody Hoffer Gittell
Professor
Heller School for Social Policy and Management, Brandeis University

RELATIONAL COORDINATION COLLABORATIVE

Relational Analytics
Guidelines for Analysis and Action
JODY HOFFER GITTELL AND HEBATALLAH NAIM ALI

Theory of Performance

Structures
- Select & Train for Teamwork
- Shared Accountability
- Shared Rewards
- Shared Conflict Resolution Process
- Boundary Spanner Roles
- Relational Job Design
- Shared Meetings & Huddles
- Shared Protocols
- Shared Information Systems

Relational Coordination
- Frequent
- Timely
- Accurate
- Problem Solving
- Communication
- Shared Goals
- Shared Knowledge
- Mutual Respect

Performance Outcomes
- Quality & Safety
- Efficiency & Finance
- Client Engagement
- Worker Well-Being
- Learning & Innovation

Conditions That Increase the Need for RC
- Interdependence
- Uncertainty
- Time Constraints

RELATIONAL COORDINATION RESEARCH COLLABORATIVE

https://heller.brandeis.edu/relational-coordination/index.html

Organization and People Innovations Highlights

Turning Your Conference Learning into Organizational Change

Lead Presenter: Arthur Markman
Professor and Vice Provost
University of Texas, Austin

Art Markman is the Annabel Irion Worsham Centennial Professor of Psychology, Human Dimensions of Organizations, and Marketing and Vice Provost for Academic Affairs at the University of Texas at Austin. He has written over 150 papers on topics including reasoning, decision making, and motivation. Art brings insights from cognitive science to a broader audience through his blogs at Psychology Today and Fast Company as well as his radio show/podcast Two Guys on Your Head. He is the author of several books including Smart Thinking, Smart Change, Brain Briefs, and Bring Your Brain to Work.

Organization and People Innovations Highlights

Hot Tub TAM Machine
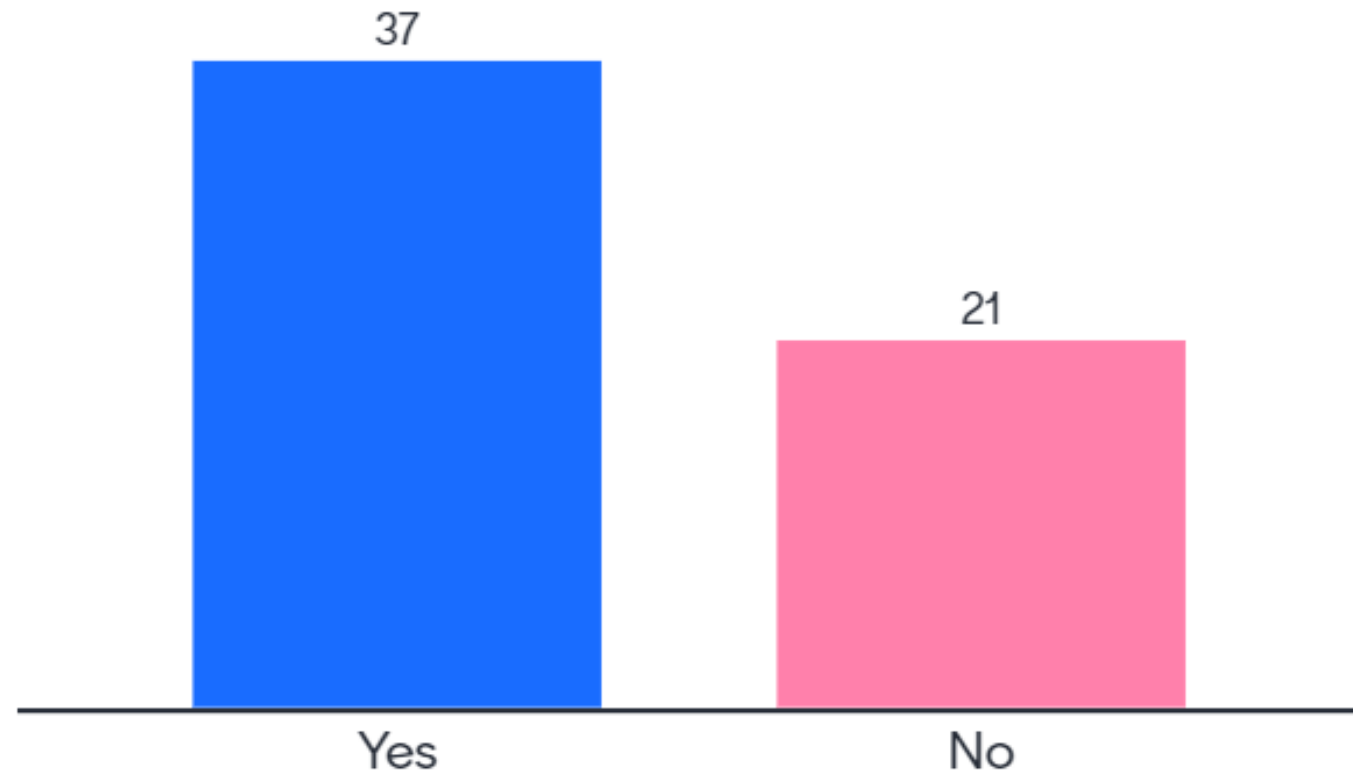
Track Leads
Emily Burns
Laura Zale
Jack Moran
William Johnson
Victor Rivas
Matt Haubrich

1 Is this your first National TAM conference?

2b. What other tools do you think are needed to be developed to support TAM implementation?

58 Responses

JIT training

Training

AI

Data modeling standards

Guides

Financial

Ability to collect quality data

Resources demonstrating best practices

Academic training and certification

Documentation/regulations that are more clear of what the goals of the TAM program are

Full lifecycle model to include acquisition, disposition, and replacement.

Sample graphics for convincing presentations

3b. What other research do we need to start now to support TAM implementation?
34 Responses

Innovative technology

Best practices

Methods for developing complex cost models

Utilize BIL funding

Approaches to calculating benefit to TAM

Partner with sister agencies

Some more fundamental research that help us move to the next level.

I need better data.

Innovative methods for developing decision trees

TAM/Maintenance Voter Research

Impact of the past 2 TAM plans on the outcomes of the agency. Is it working? Can we evolve and go beyond the minimum

4a. What do you see the TAM industry addressing five years from now?
61 Responses

Fiscal cliffs	Post BIL performance	Funding shortfalls.
People, process, technology.	The same issues with resource needs!	Risks
Data quality	Don't know	Small assets
Lack of funding	Airspace for flying cars	Organizational change management, still and always.
More robust w/ ancillary assets	Electric vehicle infrastructure	

29

5a. What did you hear at this conference that you wished the TAM community at large could have heard?
29 Responses

Risk Tolerance

Importance of incorporating sustainability and resilient consideration into asset management decisions making

More data is not necessarily better.

Process improvements can streamline our processes and make impactful changes

How to use gis

How robust GAM is, and its potential for resiliency management.

Keep you message simple and transparent

The story and impact to traveling public are what matter.

Change management knowledge

Needing to not silo information

The ZEV Data Analytics session

Q&A and Discussion

Submit your questions using the Webinar's chat feature

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Communicating Transportation Asset Management

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