Transportation Asset Management Webinar Series Webinar 73

Expanded Asset Classes in TAMPs

Sponsored by FHWA and AASHTO

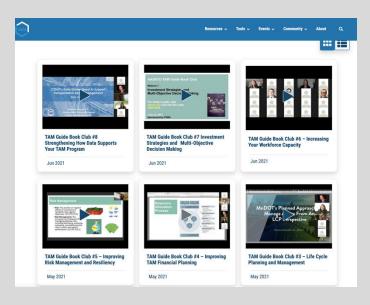




February 19, 2025

FHWA/AASHTO Asset Management Webinar Series

- This is the 73rd 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
 - Usually, the 3rd Wednesday of the month, 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: <u>https://www.fhwa.dot.gov/asset/pubs.cfm</u>

Webinar Objectives

- Learn about how DOTs are making decisions to add asset classes other than pavements and bridges to their TAMPs.
- Highlight the work involved to include various asset classes to TAMPs and the lessons learned.
- Feature DOT plans for incorporating additional assets in 2026 TAMPs.

Webinar Agenda

- 2:00 Welcome, Overview, and Agenda Michael Johnson, California DOT Anna McLaughlin, AASHTO Hyun-A Park, Spy Pond Partners
- 2:25 INDOT TAMP Next Assets Louis Feagans, Indiana DOT
- 2:40 Expanding TAMP Assets Chris Whipple, Utah DOT

- 2:55 Expanded Asset Classes in TAMPs Wolde Makonnen, Washington, DC DOT
- 3:10 Q&A, Discussion and Next Steps Hyun-A Park, Spy Pond Partners Anna McLaughlin, AASHTO

INDOT TAMP Next Assets

Louis Feagans

Managing Director of System Performance and Transportation Policy



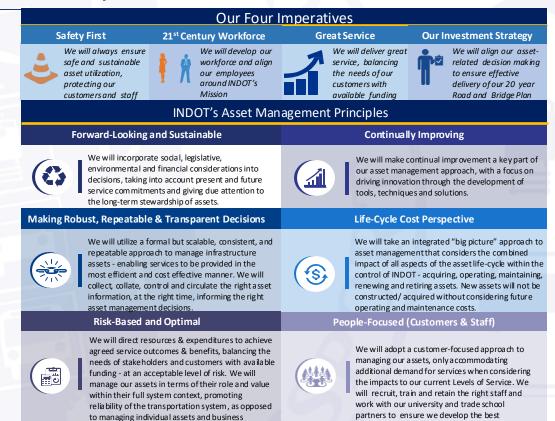


Indiana Department of Transportation

BIL COMPLIANT TRANSPORTATION ASSET MANAGEMENT PLAN

Asset Management Policy

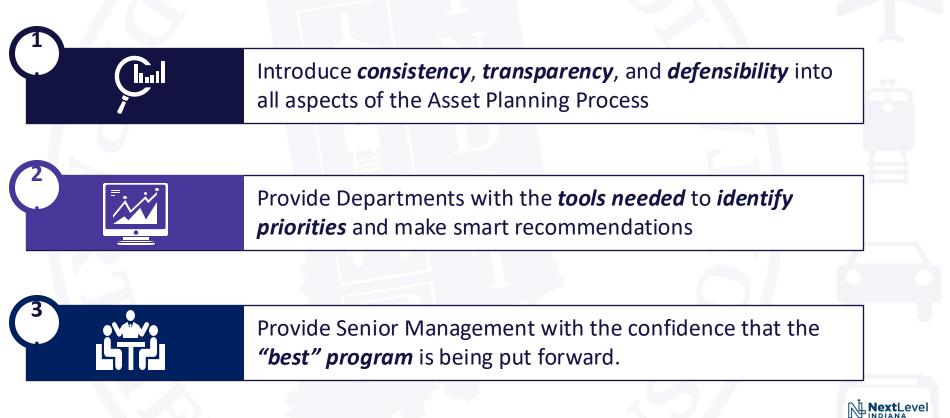
The asset management policy provides the framework for INDOT staff to plan, design, finance, construct, acquire, operate, maintain, renew and dispose of INDOT's assets in a way that ensures sound stewardship of public resources while delivering quality public services:



processes in isolation.

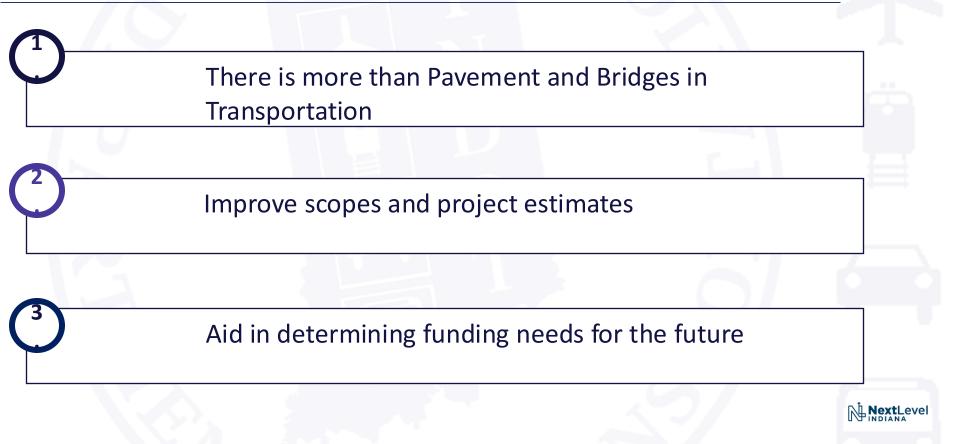
workforce.

Goals for Improving the TAMP



9

Why Add Other Assets To The TAMP



Indiana NHS Routes





11

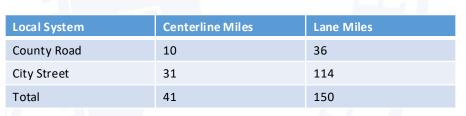
Indiana Local NHS Routes



Indiana NHS Routes Mileage



State System	Centerline Miles	Lane Miles
Interstate	1,367	5,863
US Highways	1,771	5,338
State Roads	622	1,911
Total	3,760	13,112





2022 INDOT Add INDOT's Large Culvert

- A large culvert is defined as any culvert with a span of 48 inches or more.
- Includes large culverts in all of its analysis (life cycle cost planning, risk management, and financial planning).
- INDOT owns and maintains 8,696 large culverts

3,347 are on the NHS



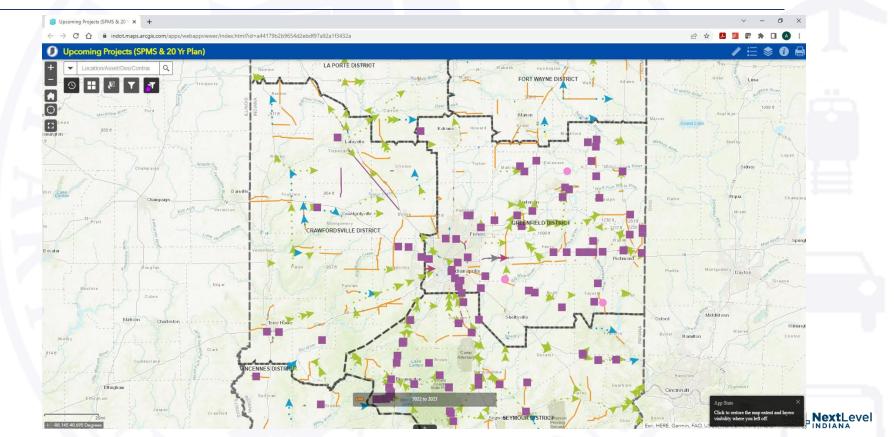
Next Level of Assets Selection

- Culverts
- Small Culverts/Pipes
- MSE Walls
- Over Head Signs
- Noise Walls

- Lighting
- ADA
- ITS items
 - Signals
 - Signs
 - Traffic Mobility

NextLevel

20 Year Plan Video



Proposed Workflow for Updating 20-yr Plan: Any Asset

Analyze: Road Analyzer allows

Identify: Asset Engineer accesses the relevant custom web app (map) on ArcGIS Online to find their relevant asset.

Launch

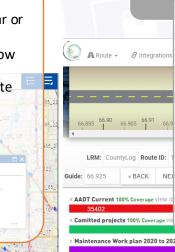
+ -

- They can search for them either using the search bar or by finding it on the map
- •Selecting an asset will allow them to open the Road Analyzer to the appropriate location

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Map data © OpenStreetMap contributors, CC-BY...

Call



 the user to view information related to their asset as well as other relevant information
Can include 20-year plan for their asset and other assets, SPMS information, condition data, traffic data
Can user plan for their asset and other assets, SPMS information, condition

20-year plan can be symbolized with gradient for how soon the project is planned to be submitted
For accessing reports, MIS might build a separate web page that would launch from Road Analyzer. Could also be access point for other data or tools

Maintenance Work plan 2020 to 2024 Toescool and several data. Julian calcol
Patching - Mntnoc
Composite Pavement Rating 2017 100% Coverage view data | view stick
Good
Pavement Sections 100% Coverage view data | view stick
1007
Pavement History 100% Coverage view data | view stick
Road Rehabilitation (BR/AR Standards)
Crack & Seat Composite Pavement & HMA Overlay,
New Road Construction, PCC
* Last Pavement Work Done 100% Coverage view of 1a | view stick

Edit: RCE can be launched from Road Analyzer for edits (single edit or multiple concurrent)

> • Edits would be made the same way as other data like pavement histories

• MIS can build customized tools for speed and ease of edits, like changing the year values by +/- 1 (say if something wasn't selected for funding

Pavement Sections 🖸 📄 🥺 🚭 🗟 🗐 📌 🕮 🍰 🔂

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Rectangle

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Review

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Location_Desc		ROAD_CATEGORY	Can Chipseal	RouteID	From Me
0.54 mi N of I-465 N leg to 0.34 mi N of I-865		A1	No	100000065000001	122.6676
					•
✓ Page 1 of 1 ► ► 1 ▼ Rec	ord 1 to 1	Total 1 Records			

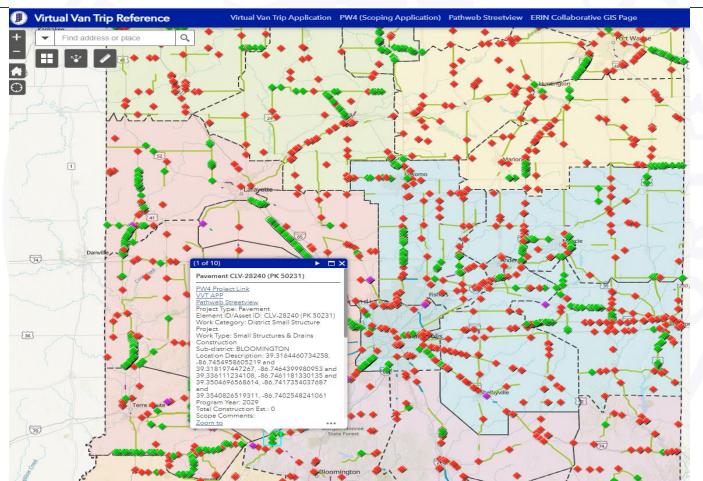
Advantages for Centralized 20-year plans

Single spot for all edits that can be controlled with data validation and version control Possibly custom Accessible to maps reports or alerts in ArcMap/ArcGIS based on selected Pro, ArcGIS Online Map, and other attributes or filtered lists applications 20-year plan stored geospatially 20-yr Plans can be Data can be compared to each stripped down to a in Roads & other more easily tabular format that for considering other databases future potential Highways can use. bundles Output reports will Plans can be compared to be available for Contracts and viewing the data in tabular formats Maintenance Work similar to Excel or from other systems more others as

necessary

easily

Virtual Van Trip



Project Scoping Application Overview

- INDOT has developed a project scoping application to develop scopes for bridge and pavement projects
 - Reduce data entry time
 - Improve the accuracy of data going into SPMS

Project Scoping Application



Kaos	ScopingWebMap	0
	GPS device no	10
Bridge Line (Inventory a 0		COTTACTA
042210		
ADSCT HANG 170-079-02416 A		
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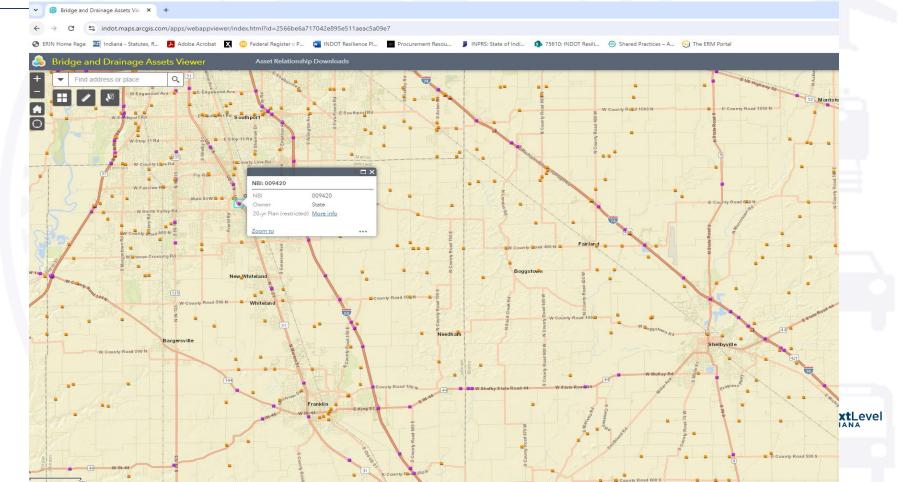
collect field notes

Indiana Department of Transport	ation				
		coping Application liverts Information	Welcome Davi		
Home / Field Edit 080336 / Bridge 8938					
Not Started In Progress Prepared Signe Details Purpose and Need Recommendations and Co					
Bridge Scoping Application, model run date "7/27/2020"			•		
Last Edited Date	2/12/2020	Work Type	C116-Bridge Thin Deck Overlay		
Last Updated By	System, DTIMS	Work Category	District Bridge Project (Rehabilitation)		
Proposed FY	2025	Score	80		
Record ID	10585	NBI #	080336		
Call Status	Interfaced to SPMS Call				
Bridge Project Details			•		
CN Cost dTIMS		CN Cost Modified	\$505,000		
Year dTIMS		Year Modified	2025		
WorkType dTIMS		Work Type Modified			
C Bridge Attributes					
AADT	9,605	AADT Truck	1,046		
On NHS	1 - Is on the NHS	Functional Class	1 - Interstate		
District	VINCENNES	Sub	LINTON		
County	14 - Daviess	Route	1.69		
Reference Post	83	Offset	14		
Latitude	38.699	Longitude	-86.992		
Existing Structure	169-083-09444 58	Structure Type	604 - Prestressed concret		

Virtual Van Trip Application

rer Apps Virtual Van Trip 🗹 Share 🗸 🎞 🍥 ?						
	an Trip Application		ŵ			
Project Details from Scoping	Application Project Asset Type: Pavemer	ent 2029 Small Structures & Drains Construction	on 🔀			
Primary Asset: PK 50231 Route: U	JS 231 RPs: + to + Calcula	ulated Length (mi): Est. Const. Cost: \$0	_			
	Secondary Asset IDs: CLV-28300 CLV- Sub-district(s): County(s): Latitude,Longitude: 39.28708713,-86.75647035 28290 CLV-28240 CLV-28206 CLV-28204 Bloomington					
Location: 39.3164460734258, -86.7454958605219 and 39.318197447267, -86.7464399980953 and 39.336111234108, -86.7461181330135 and 39.3504696568614, -86.7417354037687 and						
Costs Com	nments Not Ready to Publish	5 E] 🛛 🔀			
Preliminary Engineering						
Cons	struction	Maintenance				
Right of Way	Any comments from or relating to Construction	Any comments from or relating to Maintenance	2			
Culverts						
Desi		Environmental				
Proposed Corridor #	Any comments from or relating to Design	Any comments from or relating to Environment	tal			

Bridge and Drainage Asset Viewer

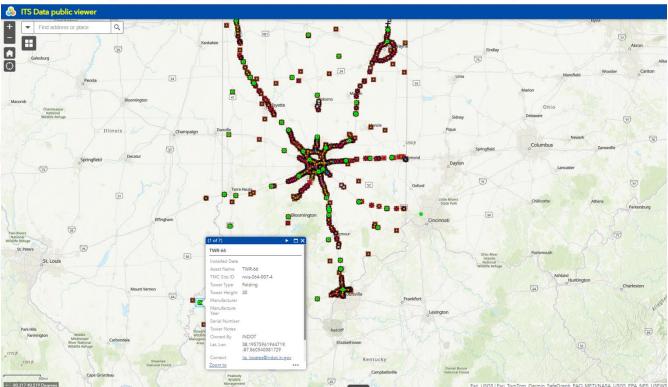


ITS Data

✓ ITS Data public viewer × +

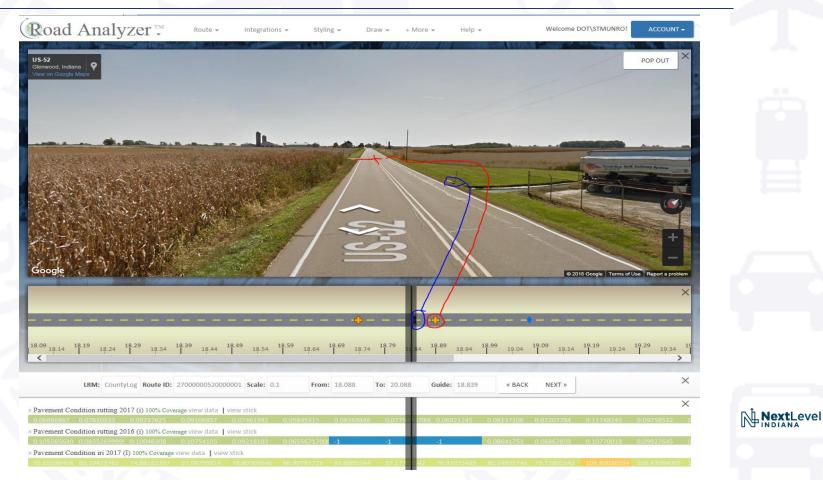
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🥱 ERIN Home Page 🔄 Indiana - Statutes, R... 📙 Adobe Acrobet 🔣 😳 Federal Register : P... 🧧 INDOT Resilience PL.. 🧧 Procurement Resou... 📕 INPRS: State of Indi... 🦚 75610: INDOT Resili... 🐵 Shared Practices – A... 😔 The ERIN Portal



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Road Analyzer





Expanding TAMP Assets AASHTO/TRB TAM Webinar 2-11-25



Pavement Bridges Select ITS Devices Signal Systems

Performance-Based

Higher Value, Higher Programmatic Risk Long-life cycles Accurate condition inventory Data informed Proactive intervention strategies Life cycles planned Performance targets Forecast performance Interval-Based Moderate Value, Moderate programmatic risk, Shorter term life cycles Accurate inventory Data informed Scheduled intervention strategies Often compliance or obsolescence based Uniform, predictable performance levels Condition targets

2

TIER

Catch Basins, Headwalls, Walls, Barriers, Lighting, Signs, Cattle Guards, Waterborne Striping, Other ITS/Signals, Durable Markings Rumble Strips Riprap Noise Walls Fences Curb and Gutter Slope Protection Cut/Fill Slopes

Reactive-Based

Lower Value and Programmatic Risk, Short to long term life cycles Basic inventory Defined condition thresholds Defined response times to failure

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TIER



TIER

Pavement Bridges Select ITS Devices Signal Systems

Performance-Based

Higher Value, Higher Programmatic Risk Long-life cycles Accurate condition inventory Data informed Proactive intervention strategies Life cycles planned Performance targets Forecast performance Interval-Based Moderate Value, Moderate programmatic risk, Shorter term life cycles Accurate inventory Data informed Scheduled intervention strategies Often compliance or obsolescence based Uniform, predictable performance levels Condition targets

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TIER

Catch Basins, Headwalls, Walls, Barriers, Lighting, Signs, Cattle Guards, Waterborne Striping, Other ITS/Signals, Durable Markings Rumble Strips Riprap Noise Walls Fences Curb and Gutter Slope Protection Cut/Fill Slopes

Reactive-Based Lower Value and Programmatic Risk, Short to long term life cycles Basic inventory

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TIER

Defined condition thresholds Defined response times to failure



TIER

Approach	Definition	Inventory	Maint. Cycle	Condition Data	Long- Term PM	Optimize Lifecycle
Performance Driven Plus	Asset condition is routinely monitored and modeled. Actions are taken proactively and reactively to optimize the asset lifecycle through minimum lifecycle cost, maximum benefit, maximum lifecycle length, or some similar approach.	0	0	0	0	0
Performance Driven	Asset condition is routinely monitored and actions are taken to manage the long-term performance of the asset based on system performance.	0	0	0	0	
Interval Driven Plus	Activities are scheduled at specific time intervals based on analysis and deterioration, where the inspection and maintenance activities are performed simultaneously to collect condition data for analysis.	0	0	0		
Interval Driven	Activities are scheduled at specific time intervals based on analysis and deterioration. Condition data may be collected on these assets to meet other business needs, but inspection cycle is managed separately from the maintenance cycle.	0	0			
Reactive	An inventory is maintained, but there is no regular condition data collection and no maintenance performed to slow or address deterioration until an asset is reported as having an unacceptable defect. Annual work is planned at the aggregate level with concern for the specific locations of potential defects.	o				
Minimum Maintenance	No inventory or data collection is collected or maintained. Maintenance is performed when assets are identified as having an unacceptable defect.					



developing asset maturity

Determine the decisions and what data is needed.

Evaluate the need for and level of asset data required (condition, interval, or reactive).

Use your available resources (grants, research, other asset groups) to prioritize inspection.

Determine initial deterioration rates and inspection frequency, based on risk and resources.

Define the data to be collected and where to store it.

Gather most of the data in design/construction.

Automate and optimize collection and analysis.

Document the benefit and need.



improved communication

TAMP Structure

- ES. Executive Summary
 - 1. Introduction
 - a. Overview
 - b. AM Vision and Objectives
 - c. TAMP Scope and Organization
 - 2. AM Planning and Programming Framework
 - a. RM-PM-AM Relationship/PBPP?
 - b. TAMP in the Planning Process
 - c. Maintenance Work Planning
 - d. Enterprise AM Systems (?)

3. Risk Management

- a. Value Framework
- b. Risk at UDOT
- c. Resilience to Extreme Weather and Natural Hazards
- d. Risk Response Prioritization
- e. Emergency Response Events (Twice Damaged)

4. Asset Inventory, Condition, and Valuation

- a. Management approaches (Tiers)
- b. Pavement, Bridge
- c. Tier 1 and 2 Assets (Performance and Interval based management) reference SOGR

Website Equivalents

- ES. Link to SOGR, risks, and TAMP
 - 1. Introduction Home Page - Overview with links (see below)
 - 1. AM Planning and Programming Framework Links on home page to SD site, data hub, some of the key figures from the TAMP

1. Risk Management

Landing page with succinct overview of principles and link to RIP, Multiple Damaged Assets, Risk Register

- Key points from risk register
- Processes and approach
- 1. Asset Inventory, Condition, and Valuation

Brief description of management, snapshots (and links) to SOGR

Asset Valuation for each (link to <u>Statistical SM</u>)



improved communication

TAMP Structure (continued)

- 5. AM Performance Measures, Targets, and Gaps
 - a. Target Terminology (State, Fed definition)
 - b. Pavement, Bridge
 - c. Tier 1 and 2 Assets
- 6. LifeCycle Planning
 - a. Life Cycle Planning Approach
 - b. Pavement Life Cycle Planning
 - c. Bridge Life Cycle Planning
 - d. Tier 1 (and 2?) Life Cycle Planning

7. Financial Planning

- a. Connecting Revenue to AM Outcomes
- b. Revenue Sources
- c. Revenue and Inflation
- d. Revenue Allocation/Investment Priorities and Direction
- e. Investment Strategies (Tler 1 and 2)

8. TAMP Implementation

- a. Continuous Improvement
- b. Future Implementation

Appendix A - Glossary of Terms

Appendix B - Risk Register

Appendix C - Life Cycle Planning

Website Equivalents (continued)

5. AM Performance Measures, Targets, and Gaps Breakdown of performance targets by asset (dashboard?)

5. Life Cycle Planning

Combine with Sections 5, 6, and 7 for each asset

5. Financial Planning See above

5. TAMP Implementation

Timeline and implementation plan page

Appendix A - Glossary of Terms Appendix B - Risk Register Appendix C - Life Cycle Planning





TAM Webinar 73:

Expanded Asset Classes in TAMPs

February 19, 2025

District Department of Transportation

OUTLINE

• **d**. TAMP

- Ancillary assets
 - d. TAMP 2022
 - Initial efforts
 - Expanded assets in 2026 and beyond

d. TAMPs

- The first complete d. TAMP was initially developed and certified in 2019
 - TAMP minimum requirements
 - NHS pavement and bridges
 - Inventory, Condition
 - LCP, Investment Strategies
 - Financial Plan, Risk management
- 2022
 - TAMP minimum requirements
 - BIL and Extreme Weather requirements
 - Refined processes
 - Other Assets



Expanded Asset Classes - d. TAMP

OTHER ASSETS

- Other than pavement and bridges, major assets managed by d. include:
 - Sidewalks and curb & gutter approximately 1,496 miles
 - Alleys approximately 365 miles
 - Tunnels 15
 - Culverts (some categorized as bridge)
 - Retaining walls
 - Overhead sign structures
 - Guardrails & attenuators
 - Green infrastructure
 - Trees
 - Streetlights & traffic signals

Others:

- Street Signs
- Traffic bollards/flexiposts, pavement marking, parking meters, bike lanes, bus stop islands...

ASSET MANAGEMENT & TAMP NEEDS

The Basic:

- Inventory & Condition -
 - Data, how much data
 - How detailed, how old, how often data is collected
 - Database, data/asset management systems
- Maintenance Program -
 - Work and maintenance information
 - Past work completed/data
 - Work plan (& prioritization processes)
- Financial Information -
 - How much money spent and how much accomplished with \$\$

More for AM:

- Data and performance analysis -
 - Asset performance, target setting, decision trees
 - Life-cycle planning and risk management
 - Budget/Investment scenarios
 - Planned budget (is there dedicated funding?)

Expanded Asset Classes - d. TAMP

d. APPROACH

- Agencywide Outreach
 - Asset owners within various departments, agencywide
- Asset readiness Assessment
 - Gather information
 - Information and gap analysis \rightarrow asset maturity evaluation

	A	В	С	D	E	F	G
1	Asset Type	Existing Inventory	GIS Layer	Is Updated and Used	Can Cyclomedia collect?	Polygon, Point, Line	Link to Layer
2	ADA Curb Ramps	Yes	Yes	No		Pl	https://maps2.dcgis.dc.gc
3	Alley	Yes	Yes			L	https://maps2.dcgis.dc.gc
4	Automated Traffic Enforcement Cameras	Yes	Yes	Yes		Pt	https://maps2.dcgis.dc.gc
5	Bike Lane	Yes	Yes	Yes		L	https://maps2.dcgis.dc.gc
6	Bile Trails	Yes	Yes	Yes		L	https://maps2.dcgis.dc.gc
7	Bike Racks	Yes		Yes			https://maps2.dcgis.dc.gc
8	Bridges	Yes	Yes	Yes		Pl	https://maps2.dcgis.dc.gc
9	Bus Lanes	Yes	Yes	Yes		L	https://maps2.dcgis.dc.gc
10	Bus Stops	Yes	Yes	No		Pt	https://maps2.dcgis.dc.gc
11	Capital Bikeshare Stations	Yes	Yes			Pt	https://maps2.dcgis.dc.gc
12	Culverts	Yes					https://maps2.dcgis.dc.gc
13	Curb Extensions	Yes	Yes	Yes		Pl	https://maps2.dcgis.dc.gc
14	Flexipost/Pylons	Yes		No			https://maps2.dcgis.dc.gc
15	GreenInfrastructure	Yes	Yes			Pl	https://maps2.dcgis.dc.gc
16	Guardrails	Yes	Yes	Yes		Pt	https://maps2.dcgis.dc.gc
17	HAWK Signals	Yes	Yes	Yes		Pt	https://maps2.dcgis.dc.gc
18	Parking Meters	Yes	Yes	Yes		Pt	https://maps2.dcgis.dc.go
19							
20							
24							

Example of a preliminary sample asset register

d. <u>CORE INFRASTRUCTURE</u>

- Before the recent restructuring, the AM division managed the inventory, condition and maintenance of Core Assets, *i.e. pavement, bridges, sidewalks, alleys, tunnels, (plus guiderails and attenuators), and the TAMP.*
 - Good Inventory data for sidewalks, alleys, tunnels and guardrails
 - Condition data survey not performed as frequently
 - Condition database is updated when work is completed at a location;
 - Data is still used to prioritize and plan work locations
 - Worst first approach focused on sidewalks and alleys rated 'Poor'
 - Also includes Reactive maintenance program to respond to safety issues and Service Requests (trip hazards, loose bricks or cracked sidewalks)

** Significant Investment on sidewalks and alleys by Mayor Bowser past 6-7 years **

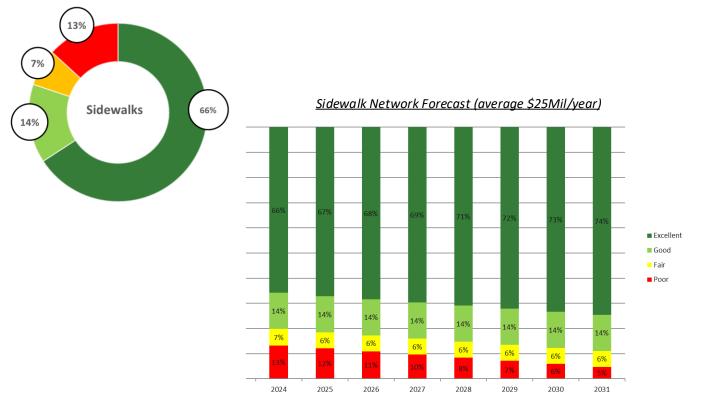
Maintenance Strategies

Maintenance Strategy	Description
Condition-based maintenance	Used for assets that require routine condition monitoring, predictable failure modes using condition forecasting models
Interval-based maintenance	Routine/regularly scheduled type maintenance
Reactive-based maintenance	Used for Service requests, or noncritical assets/components, inconsequential, or redundant items.

• Note that some assets may combine various maintenance strategies

Sidewalks - d. TAMP

Sidewalk condition in 2024 (year of last survey after 2018)



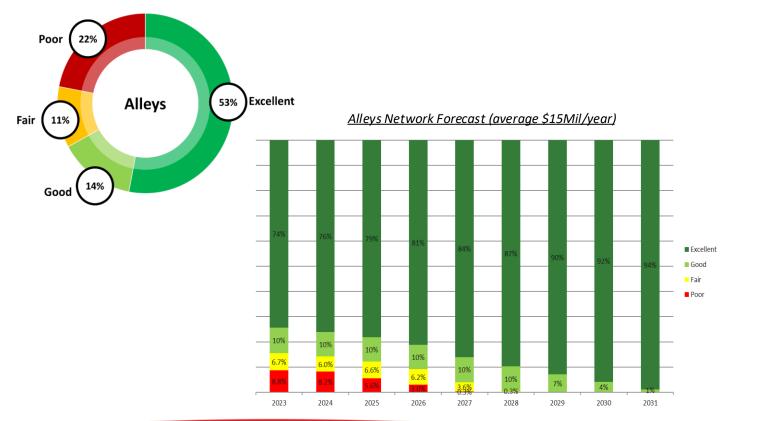
Expanded Asset Classes - d. TAMP

Sidewalks - AM Assessment

Maintenance Strategy	Process/Task	Supporting Data	Level of Need (Essential/ Desirable)	Data Availability (Completeness)
Condition & Reactive-based	Inventory assessment	Asset/component inventory	Essential	Excellent – data is available and complete
	Condition assessment	Historical condition	Desirable	Adequate - data is somewhat available but not complete
	Perfor mance assessment	Performance data (measures, goals, and targets)	Essential	Adequate – data is somewhat available but not complete
	Analysis & forecasting	Treatment strategies and benefits	Essential	Good – data is available
		Deterioration rates	Desirable	Poor – Data is not available
		Work type cost	Essential	Good – data is available
		Decision trees	Desirable	Good – data is available
		Analysis tools or processes	Desirable	Poor – Data is not available

Alleys - **d.** TAMP

Alleys condition in 2018 (year of last survey)



Expanded Asset Classes - d. TAMP

Alleys - AM Assessment

Maintenance Strategy	Process/Task	Supporting Data	Level of Need (Essential/ Desirable)	Data Availability (Completeness)
Condition-based	Inventory assessment	Asset/component inventory	Essential	Excellent – data is available and complete
	Condition assessment	Historical condition	Essential	Adequate - data is somewhat available but not complete
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	Analysis & forecasting	Treatment strategies and benefits	Essential	Good – Data is available
		Deterioration rates	Desirable	Poor – Data is not available
		Work type cost	Essential	Good – Data is available
		Decision trees	Desirable	Good – Data is available
		Analysis tools or processes	Essential	Poor – Data is not available

Tunnels – District of Columbia

<u>TUNNELS</u>

- Good inventory and condition data overall
- Tunnels consist of various components
 - A combination of Condition/Interval/Reactive based approaches exist
 - Some components, follow manufacturer's maintenance guidelines
- Need more analysis on each component to perform:
 - LCP, deterioration rates
 - Each component may require its own AM and maintenance strategy
- Translate that for the whole tunnel structure

Tunnels - **d.** TAMP

Tunnels: Equipment and Recommended Maintenance Approach

Equipment/System	Condition Based	Interval Based	Reactive Based
Structural components	Preferred	Feasible	Not recommended
Lighting	Feasible	Feasible	Preferred
Ventilation equipment	Preferred	Feasible	Not recommended
Filtering and pumping stations	Preferred	Feasible	Not recommended
Tunnel environment sensors	Preferred	Feasible	Not recommended
Fire detection and extinguishing system	Feasible	Preferred	Not recommended
CCTV system	Feasible	Preferred	Feasible
Emergency exists	Preferred	Feasible	Feasible
Traffic management equipment	Feasible	Preferred	Feasible
Automatic accident detection	Preferred	Feasible	Feasible
Communication systems (SOS, loudspeaker, telephone)	Preferred	Feasible	Feasible

- Further data analysis needed for LCP and to develop deterioration rates
 - Performance/Lifecycle Plan/Maintenance needs
 - Concrete <u>vs.</u> brick <u>vs.</u> other materials
 - Tree roots damage (short life) and flexipave performance



Brick Sidewalk – damage by tree roots



Flexipave

- Further data analysis needed for LCP and to develop deterioration rates
 - Performance/Lifecycle Plan/Maintenance needs
 - Concrete vs. brick vs. other materials





Alleys and sidewalks – special materials

Concrete Sidewalks: horizontal cutting

TAMP Implementation

- General TAMP communication and education, AM practice
 - Outreach to asset owners
- Assets TAM maturity evaluation
 - Data availability (the basic and more)
 - Further data analysis (inventory, condition, completeness, quality, financial)
 - Maintenance program and work plan strategies
- Update assets register to include more than the basic (inspection cycle, performance and targets need, Life-cycle plan and maintenance/replacement strategy...)
- Technology and leveraging on available systems for better AM
 - GIS
 - Asset Management systems

- Executive Management
 - Information for data driven decision making, prioritization



DC Mayor Bowser at Budget Oversight Hearing on streets, sidewalks and alleys -d. analysis and charts were instrumental in securing investment on core infrastructure by the Mayor.

• Resource needs

Expanded Asset Classes in TAMPs – District of Columbia

Thank you Questions?

Wolde Makonnen wolde.makonnen@dc.gov 202-391-8199

Q&A and Discussion

Submit your questions using the Webinar's chat feature

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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, April 16, 2025 – 2:00 PM EST Topic: Life Cycle Planning

More to follow!



For more information or to register: https://www.tam-portal.com

