

A. Elements of Good Prioritization



Asset Management Peer Exchange: Elements of Good Prioritization

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Bureau of Transportation Planning

Michigan Department of Transportation

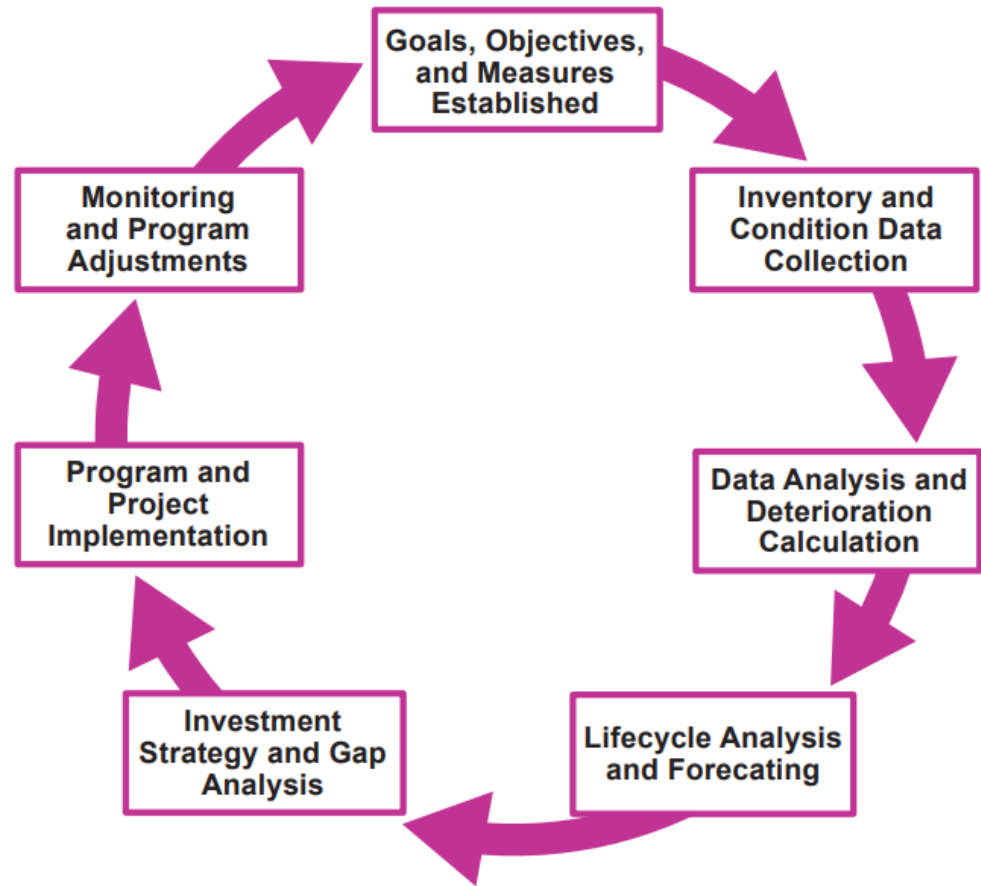
July 8-9, 2023 - Boston, MA – sponsored by FHWA & AASHTO

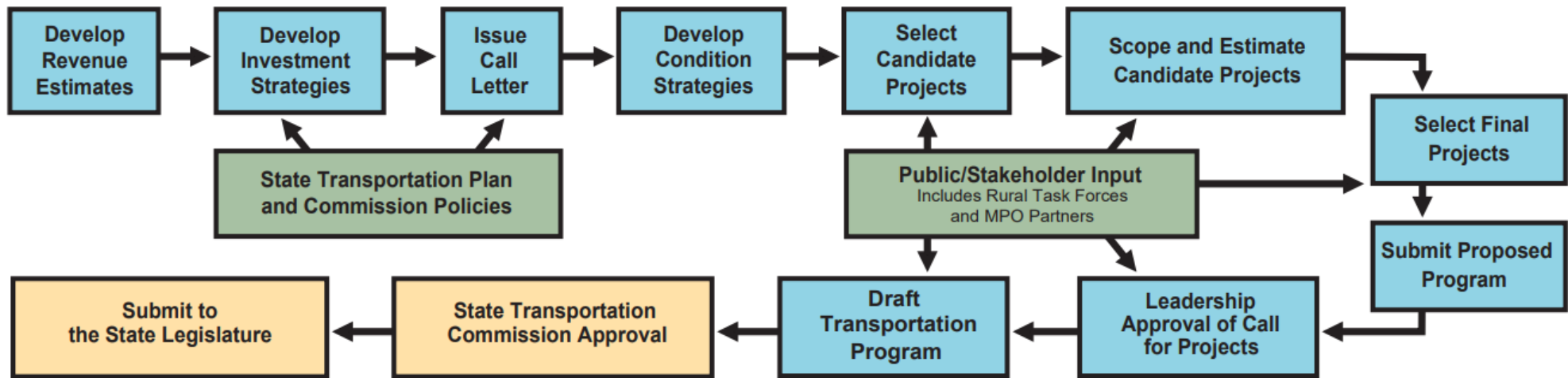


MDOT-Owned Transportation Assets

- 27,864 lane miles of pavement
- 4,492 bridges spanning 48M ft²
- 3,200 traffic signals
- 665 miles of rail line
- 247 carpool parking lots
- 4 intercity bus terminals
- 4 airports

MDOT's Asset Management Approach





Highway Call for Projects (CFP)

- Internal process that defines strategic direction and funding targets for major capital programs:
 - Road, bridge, transportation systems management & operations (TSMO), roadside facilities
- Designed to ensure progress toward goals and achievement of performance targets
- Develop the annual Five-Year Transportation Program

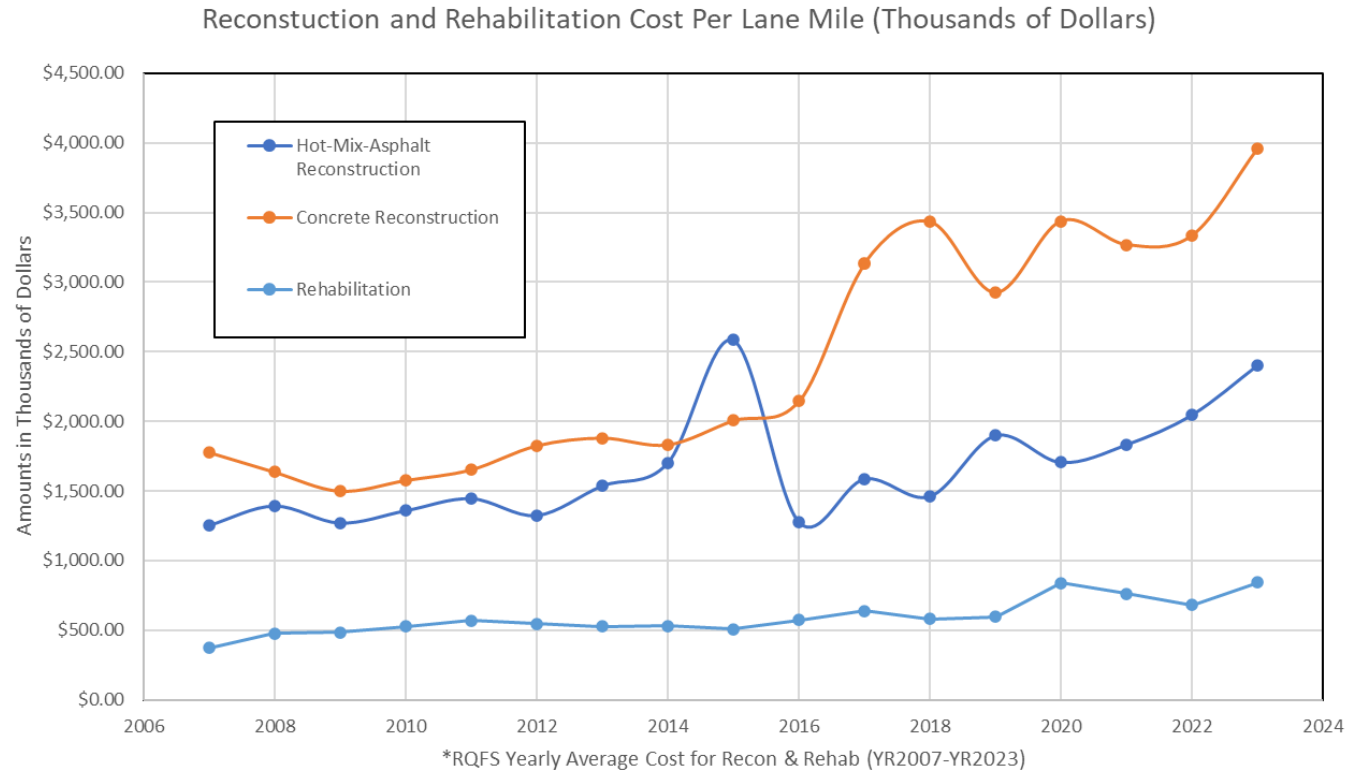
Target Allocation & Strategic Direction for R&R

2029 R&R TARGET ALLOCATION FORMULA

			Bay	Grand	Metro	North	Southwest	Superior	University	Statewide
Cost										
25%	10.0%	% Lanemiles - Urban over 50K Pop.	6.7%	7.2%	71.3%	0.0%	6.6%	0.0%	8.1%	100.0%
	10.0%	TAMP (I & II) Cost	13.8%	11.3%	18.8%	11.3%	15.7%	9.9%	19.3%	100.0%
	5.0%	TAMP (III & IV) Cost	15.1%	11.4%	16.2%	10.1%	15.6%	11.7%	19.8%	100.0%
Condition										
50%	6.0%	% PCM=Fair or Poor TAMP I	13.8%	12.4%	29.1%	6.5%	8.4%	1.1%	28.7%	100.0%
	3.5%	% PCM=Fair or Poor TAMP II	18.7%	17.6%	21.9%	4.8%	7.5%	0.0%	29.4%	100.0%
	3.5%	% PCM=Fair or Poor TAMP III	14.9%	9.5%	27.6%	10.4%	7.1%	17.1%	13.3%	100.0%
	2.0%	% PCM = Fair or Poor TAMP IV	19.2%	17.7%	2.1%	17.2%	13.7%	15.4%	14.7%	100.0%
	14.0%	% RSL <=7 - TAMP I	17.7%	5.9%	30.9%	9.9%	9.7%	3.2%	22.6%	100.0%
	8.0%	% RSL <=7 - TAMP II	23.6%	20.7%	23.8%	3.2%	2.8%	0.0%	26.0%	100.0%
	8.0%	% RSL <=7 - TAMP III	16.5%	10.5%	25.5%	9.9%	6.7%	18.5%	12.4%	100.0%
	5.0%	% RSL <=7 - TAMP IV	24.4%	16.3%	1.7%	12.6%	12.9%	14.8%	17.3%	100.0%
Usage										
25%	5.0%	% VMT RSL<=7	15.9%	12.3%	34.6%	5.2%	7.5%	3.4%	21.1%	100.0%
	7.0%	% Commercial VMT RSL <=7	13.3%	11.6%	24.8%	4.2%	13.3%	3.5%	29.3%	100.0%
	7.0%	% Lanemiles RSL <=7 Comm AADT 5,000	4.4%	11.0%	36.0%	0.0%	11.6%	0.0%	36.9%	100.0%
	6.0%	% Lanemiles RSL <=7 AADT 50,000+	8.6%	4.1%	62.8%	0.0%	3.4%	0.0%	21.1%	100.0%
			Bay	Grand	Metro	North	Southwest	Superior	University	Statewide
2029 Resulting New Target with Updated Data (millions)			\$83.71	\$63.13	\$179.80	\$37.29	\$53.69	\$32.19	\$121.68	\$571.50
\$571.50			14.6%	11.0%	31.5%	6.5%	9.4%	5.6%	21.3%	100.0%
2028 Target			\$94.75	\$70.02	\$202.61	\$36.97	\$68.43	\$36.54	\$137.19	\$646.50
Percent Change			-11.7%	-9.8%	-11.3%	0.9%	-21.5%	-11.9%	-11.3%	
Numerical Change			(\$11.04)	(\$6.89)	(\$22.81)	\$0.33	(\$14.74)	(\$4.34)	(\$15.50)	(\$75.00)
FINAL 2029 Target After Metro Re-Distribution to I-94 Modernization Project (millions)			\$83.71	\$63.13	\$127.80	\$37.29	\$53.69	\$32.19	\$121.68	\$519.51

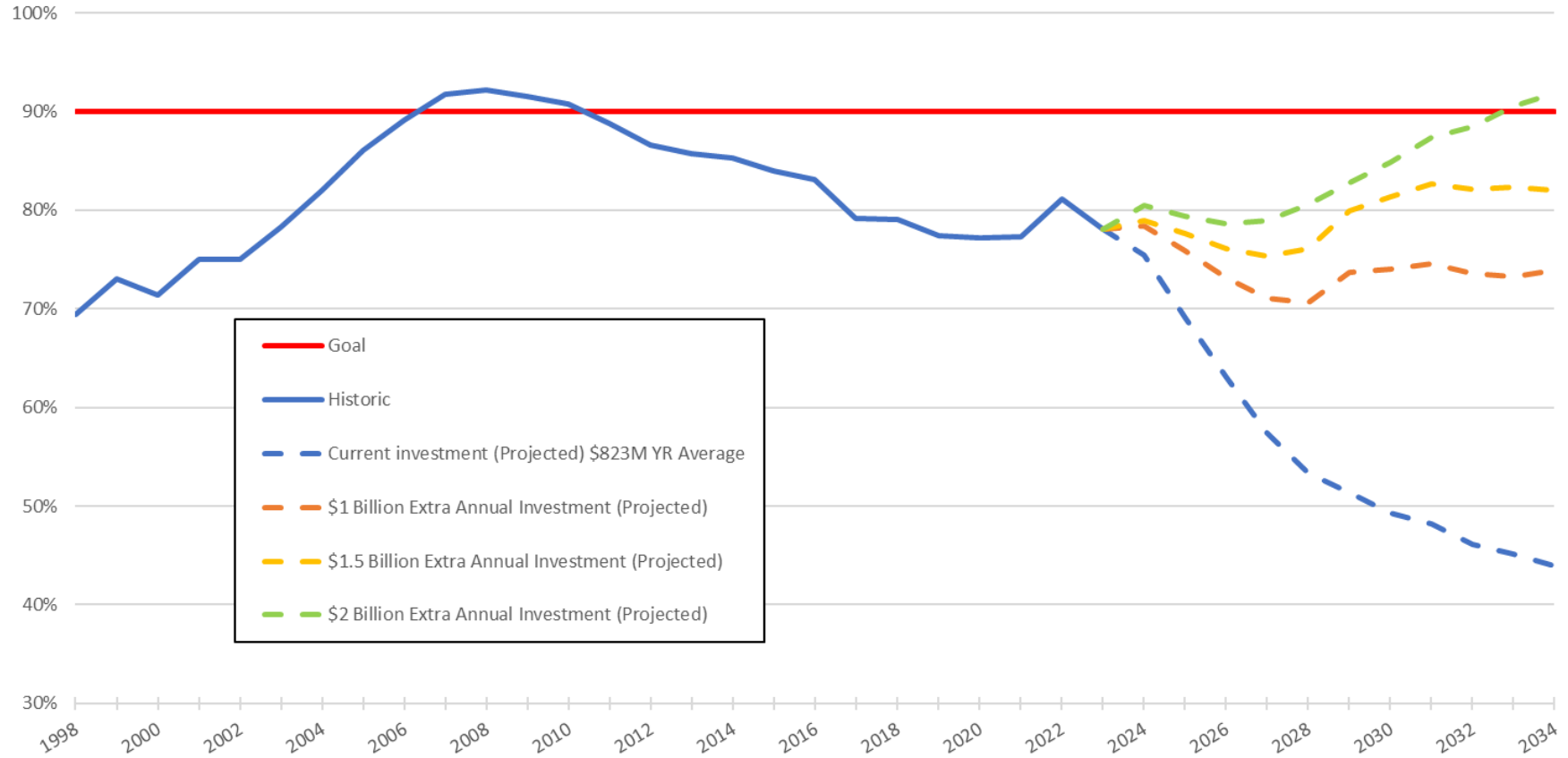
Region	Interstate (Tier 1) Minimum	Non-Interstate Freeway (Tier 2) Minimum
Bay	44%	15%
Grand	22%	31%
Metro	64%	12%
North	25%	5%
Southwest	63%	6%
Superior	5%	0%
University	54%	22%

Region Perspective: Biggest Challenges



- How to address declining pavement condition while non-pavement items are growing within the R&R program
- Inflationary pressures and buying power

State Trunkline Combined Freeway/Non-Freeway: Projected Pavement Conditions Current Investment Vs Additional Funding

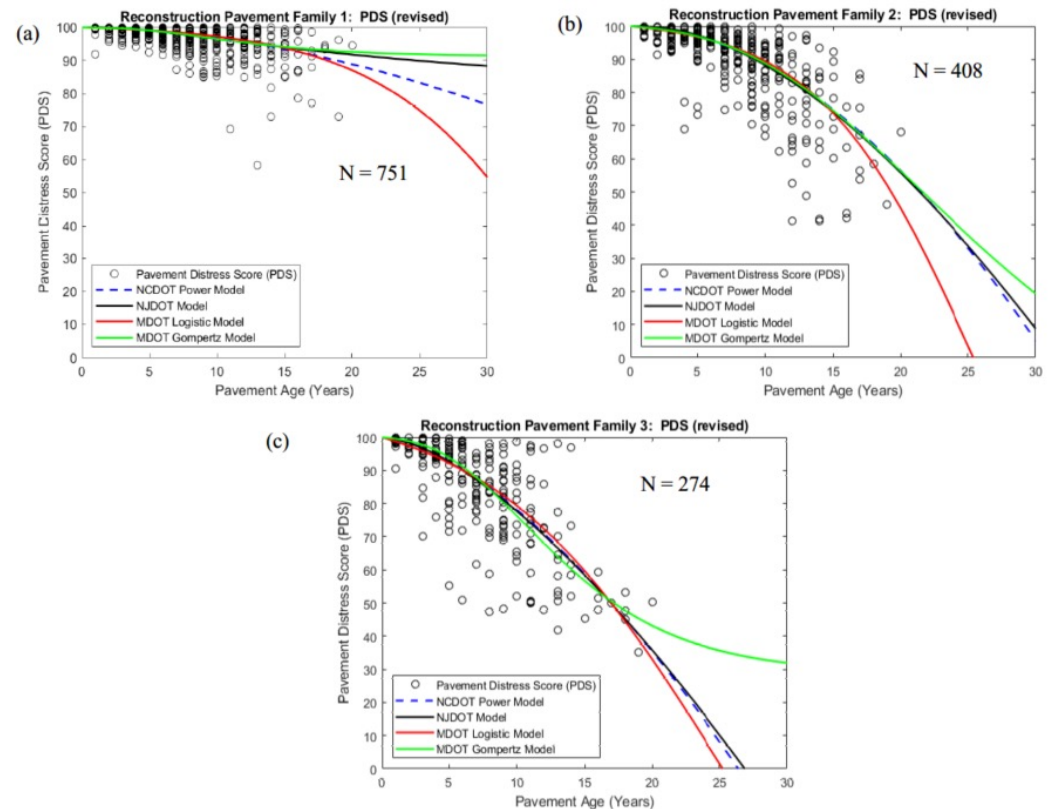


Source: MDOT, BTP, SSMS, as of March 29, 2023

*Based on Remaining Service Life (RSL)

Research and IT Projects

- Pavement Performance Curve Project – ETA Dec '23
 - Identify a replacement for Distress Index (DI) = Pavement Distress Score (PDS)
 - Recommendations to model and forecast life cycle, RSL, and federal pavement condition measures (IRI, Rut/Fault, Cracking %)
- Multi-Objective Decision Analysis (MODA) – starts Oct '23
 - Develop a performance-based approach to inform decision-making based on multiple objectives, including condition and long-range goals
 - Categorize all highway assets, investment options, goals and metrics, and recommend weights for each
- Project Identification Tool (PIT) – ETA Spring '24
 - Pavement project prioritization and optimization
 - Will utilize above research to forecast PCM for the network



State Long Range Transportation Plan: Michigan Mobility 2045 (MM2045)

- Integrated freight, rail, active transportation, and transit plans
- MM2045 vision has become MDOT's vision
- Emphasizes the need for AM, right-sizing, resiliency, and sustainable long-term funding across modes and assets to meet future needs of all people
- Core Strategies:
 - Manage resources responsibly
 - Advance TAM to optimize transportation investments





MDOT's Asset Management Vision:

To integrate asset management practices and systems into everyday business operations and decision making to provide the desired level of service in a sustainable way, while managing risk, at the lowest lifecycle cost.

Michigan Transportation Asset Management (MiTAM)

- A strategic effort to bring asset management to all business areas, including planning, design, construction, operations, and maintenance.
- Develop an enterprise asset management system that links all assets together in one tool to measure/compare different assets within a geographic area to determine the best investment decisions to meet the department's vision.
- Transportation Asset Steering Committee

Transportation Asset Management Council (TAMC)

- Formed under Michigan State Law: Public Act 499 of 2002 to promote asset management practices among all 600+ road agencies
- Utilizes Pavement Surface Evaluation and Rating (PASER) for collecting condition data on the federal-aid network
- Requires Local Asset Management Plans – new in 2018
 - All local agencies with 100+ miles of certified roads
 - Must be updated every 3 years
- Michigan Infrastructure Council (MIC) AM Champion Program



Mission:

*Serving and connecting people,
communities, and the economy through
transportation.*

[For more information on Asset Management \(michigan.gov\)](http://michigan.gov)



Project Prioritization and Selection

TAM Peer Exchange
July 8, 2023



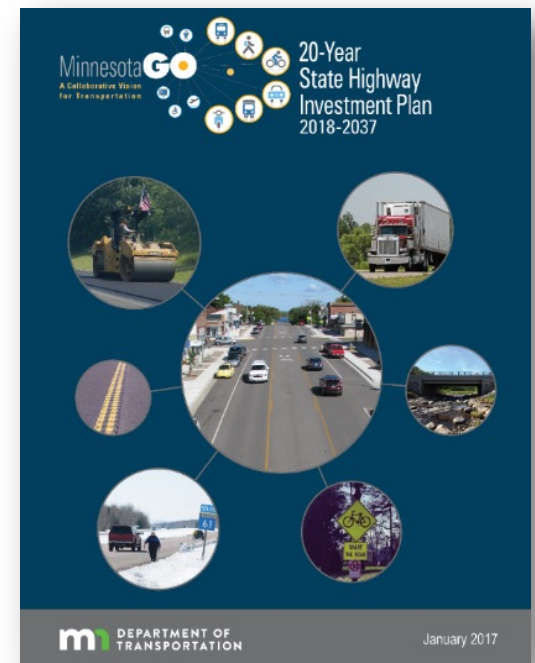
Context and Background

Governance and Funding

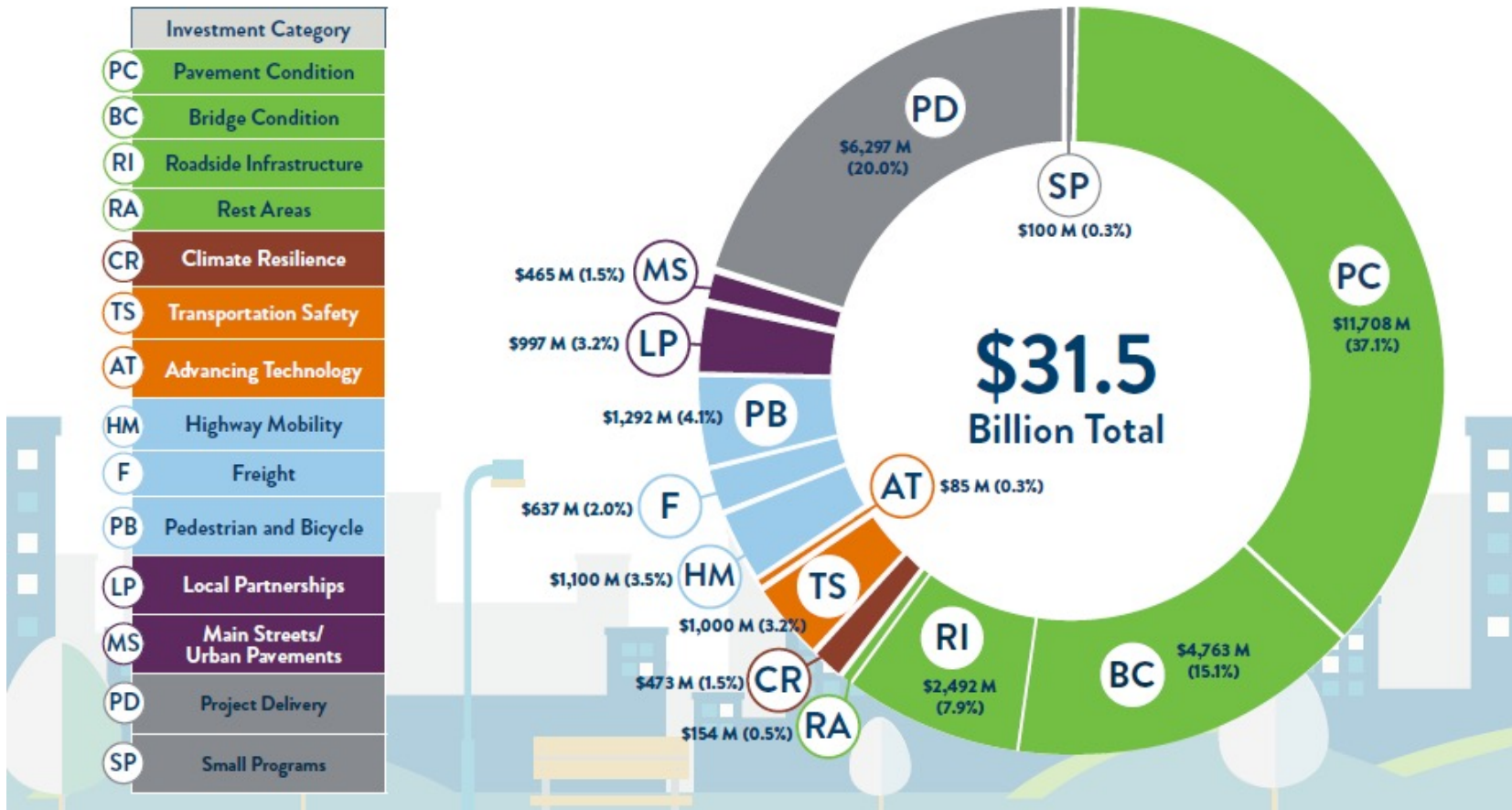
- Commissioner appointed by Governor, no board or commission
- Constitutionally dedicated/restricted funding
 - Set percentages listed in the state constitution to dedicated funds for state highways, county highways, municipal streets, and transit

Performance-Based Planning

- Used performance-based planning since 2003
- 20-Year Highway Investment Plan (MnSHIP)
 - Fiscally constrained, risk and performance-based
 - Not project specific
- 10-Year Capital Highway Investment Plan
 - Project specific
 - Explicitly tracks outcomes / investment compared to MnSHIP
 - Updated annually



20-Year Investment Plan



How We Talk About Selecting Projects

“It’s like making
sausage”

“It’s
complicated”

“We’re in
preservation
mode”

“We get in a room and
after lots of shouting,
we come out with a list
of projects”

Policy and Scoring

Project Selection Policy

- Policy adopted in November 2018
- Applies to almost all state highway construction projects
 - Exempted some preventive maintenance, emergency repairs, etc.
 - First implemented with the 2020-2023 STIP
& 2020-2029 Capital Highway Investment Plan (CHIP)

Use of Scores & Transparency

- MnDOT posts:
 - Criteria and methodology for all project selection processes
 - Scores for all projects selected and evaluated but not selected
- The score assigned to candidate projects is a key factor in project selection, but other factors are considered in addition to the score.
 - When a high scoring project is not selected or when a lower scoring project is selected, MnDOT provides a short explanation of the reasoning

Selection Categories

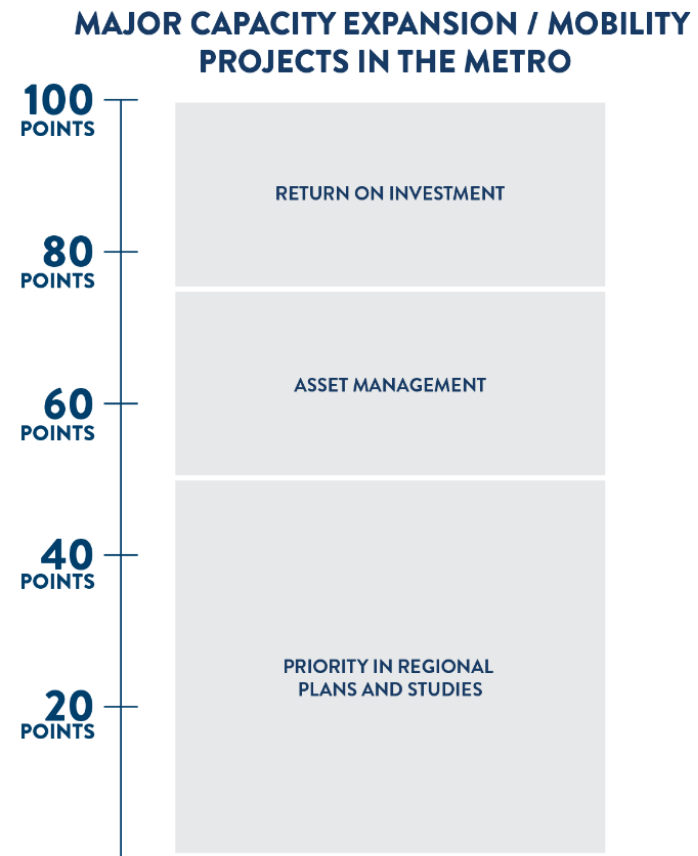
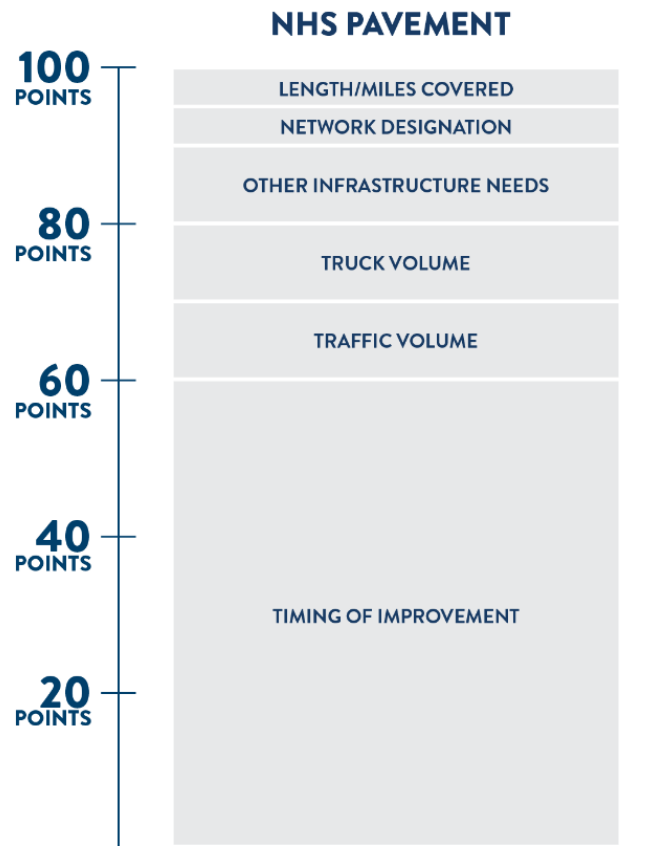
SCORED/SELECTED WITHIN EACH DISTRICT

- Pavement
 - NHS
 - Non-NHS
 - Urban
- Non-NHS bridges and culverts
- Mobility/capacity expansion
- Standalone:
 - Safety
 - Bicycle and pedestrian
- Local Partnership Program

SCORED/SELECTED **STATEWIDE**

- NHS bridges and culverts & ped bridges
- Specialty/competitive programs:
 - Corridors of Commerce
 - Highway Freight Program
 - Highway Safety Improvement Program
 - Historic Roadside Properties
 - ITS
 - Railway-Highway Crossings
 - Safety Rest Areas
 - Standalone Noise Barriers
 - Transportation Economic Development
 - Weigh Station Capital Improvements

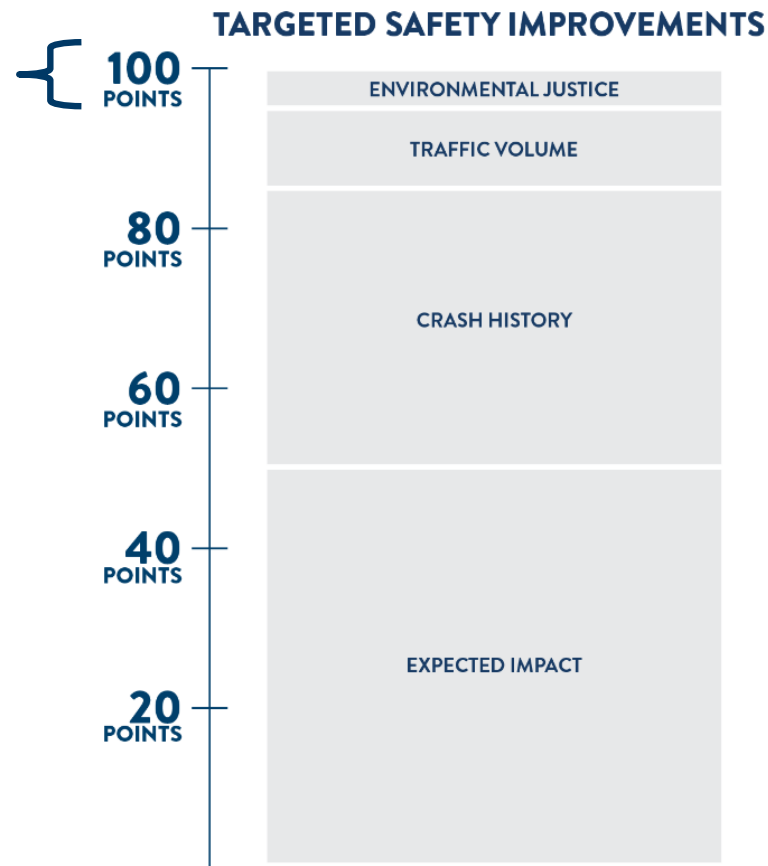
Examples



Examples: Environmental Justice

Included EJ in score (based on census data of adjacent tracts) in some categories

Currently several efforts underway to study equity that may inform revisions/additions



Score Included in STIP & CHIP

District 7 Projects for Years 2025-2030 of the 10-Year CHIP

#	ROUTE	COUNTY	DESCRIPTION	LENGTH (MI)	COST RANGE	PROJECT SELECTION CATEGORY*	SCORE*
2026							
7	I 90	NOBLES	Resurface WB lanes from Adrian to Rushmore	8.7	\$5.5 M-\$7.5 M	NHS Pavement	83
8	I 90	NOBLES	Rehabilitate I-90 bridges in Nobles County	0.3	\$3.0 M-\$4.0 M	NHS Bridge	80
9	US 14	BLUE EARTH	Repair CSAH 82/CSAH 3 to two miles east of Eagle Lake	6.4	\$4.9 M-\$6.7 M	NHS Pavement	80
10	MN 22	FARIBAULT	Resurface from I-90 to Wells	9.9	\$3.0 M-\$4.0 M	Non-NHS Pavement	76
11	MN 109	FARIBAULT	Reconstruct Highway 22 in Wells	2.4	\$6.8 M-\$9.2 M	Urban Pavement	75

*State highway projects include a project score and project selection program based on MnDOT's new project selection policy. Projects which were selected and included in

Candidate Lists Online

How the projects scored

The construction costs shown on this list represent a very rough estimate based on limited information available at the time selection decisions were made. Actual construction and delivery costs will change over time as projects go from a concept through the project development process and are eventually constructed. [View more detailed scores \(Excel\)](#).

Last updated December 2019

Score ▲ ▼	District ▲ ▼	Bridge number ▲ ▼	Route ▲ ▼	Key intersection or closest landmark ▲ ▼	Work type ▲ ▼	Year planned (FY) ▲ ▼	High level construction cost estimate for planning purposes ▲ ▼	Comments ▲ ▼
100	Metro	9600N	MN77 Northbound	Minnesota River/Blackdog Road	Reoverlay deck surface	2025	\$3,800,000	
97	Metro	27855	I-94	Highway 55	Overlay deck surface	2025	\$4,500,000	
90	6	9009	MN 30	North Bridge Root River	Replace	2021	\$1,900,000	Coordinated with bridge 9008
90	Metro	9700	US 10	Rum River	Replace	2022	\$61,000,000	
90	Metro	9217E	I-494 Eastbound	Minnesota River	Reoverlay deck surface	2023	\$7,300,000	
90	Metro	9217W	I-494 Westbound	Minnesota River	Reoverlay deck surface	2023	\$6,800,000	
90	Metro	9600S	MN 77 Southbound	Minnesota River/Blackdog Road	Reoverlay deck surface	2025	\$3,800,000	
88	1	69816	Lake Ave	Over I-35	Overlay deck surface	2020	\$2,000,000	Coordinated with a city of Duluth project on Superior Street.
87	3	71012	MN 25	Mississippi River	Overlay deck surface	2024	\$2,500,000	
85	1	69808	I-535	Over Garfield Ave and railroad	Redeck	2028	\$3,700,000	
81	6	9040	US 63	Mississippi River and Canadian Pacific Rail	Replace	Not Selected	\$39,000,000	Complex project that requires coordination with railroad

Website has multiple ways to navigate:

- By district
- By type of project or program

www.mndot.gov/projectselection

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Asset Management Planning Director
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pennsylvania
DEPARTMENT OF TRANSPORTATION

Project Selection Process



The 2023 Transportation Performance Report is now available. [View the report.](#)



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PENNSYLVANIA'S 12-YEAR PROGRAM TRANSPORTATION SURVEY RESULTS

[View Results](#)

12-YEAR PROGRAM UPDATE Public Participation by the Numbers

WE
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10,573
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106%
to our goal of
10,000
Survey Responses

THANK
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FOR YOUR
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THE PUBLIC COMMENT PERIOD IS CLOSED

YOUR FEEDBACK IS STILL IMPORTANT!

[Take our Survey Today!](#)



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Learn about the 12-Year Program Process

This animated tool explains how Pennsylvania goes from transportation planning to transportation projects.

[Take a ride](#)


UNDERSTAND How it works

Multiple plans and programs are used to evaluate, set goals, select projects, and fund Pennsylvania's transportation needs.




Transportation Performance Report

The Transportation Performance Report (TPR) explains the progress and needs of Pennsylvania's transportation system in



Transportation Improvement Program

Transportation Improvement Programs (TIPs) list planned projects and assign funding over a four-year period. TIPs



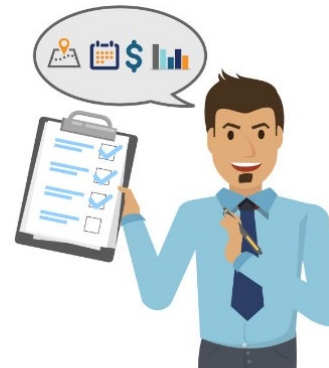
Statewide Transportation Improvement Program

The Statewide Transportation





6. PennDOT Review



PennDOT reviews the projects included in the program to ensure that they meet statewide transportation projections, and conform to air quality requirements.

[Continue](#)

[Go to specific step](#)

The 12-Year Program Process: From Planning to Projects

UNDERSTAND How it works

Multiple plans and programs are used to evaluate, set goals, select projects, and fund Pennsylvania's transportation needs.



Transportation Performance Report

The Transportation Performance Report (TPR) explains the progress and needs of Pennsylvania's transportation system in the most recent two-year period.

[Learn more](#)



Transportation Improvement Program

Transportation Improvement Programs (TIPs) list planned projects and assign funding over a four-year period. TIPs cover regional projects or statewide initiatives.

[Learn more](#)



Statewide Transportation Improvement Program

The Statewide Transportation Improvement Program (STIP) lists statewide planned projects and assigns funding over a four-year period. It comprises 24 regional TIPs and two statewide TIPs.

[Learn more](#)



Long-Range Transportation Plan

Long-Range Transportation Plans (L RTP) set policies, visions, and goals over a 20-year period. Statewide and regional L RTPs help guide the planning process.

[Learn more](#)



12-Year Program

The 12-Year Program (TYP) lists statewide planned projects and assigns funding over a 12-year period. The first four years comprise the STIP.

[Learn more](#)



Public Participation Plan

The Public Participation Plan (PPP) explains the Statewide L RTP, TYP, STIP, and PPP; the update processes, and public involvement opportunities for each.

[Learn more](#)



The 2023 Transportation Performance Report is now available. [View the report.](#)



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Statewide Transportation Improvement Program

HOW IT WORKS

Statewide Transportation Improvement Program (STIP)

The Statewide Transportation Improvement Program (STIP) lists statewide planned projects and assigns funding over a four-year period. It includes the 24 regional [Transportation Improvement Programs](#) (TIPs) and two statewide-managed TIPs (Interstate Management Program TIP and Statewide Initiatives TIP).



Who creates it?

PennDOT combines the 24 regional and two statewide-managed TIPs to create the STIP. PennDOT submits the draft STIP to the Federal Highway Administration, Federal Transit Administration, and the US Environmental Protection Agency for review and approval.



When is it updated?

The STIP is updated every two years after the regional TIPs are submitted and approved. The Draft 2023 STIP Public

Read the 2023 STIP

The Draft 2023 STIP was available statewide for public review and comment from June 15 through June 30, 2022.

Additionally, while there are no areas in Pennsylvania under the jurisdiction of Indian Tribal governments, PennDOT considers federally-recognized Tribes to be interested parties. Accordingly, PennDOT coordinated with representatives of 15 federally-recognized Tribes that have interests in Pennsylvania to provide opportunities for review and comment on the Draft 2023 STIP during the comment period. At the end of the comment period, PennDOT had received a total of 50 comments for review and consideration. PennDOT then submitted the Draft 2023 STIP to the Federal Highway Administration, Federal Transit Administration, and the US Environmental Protection Agency for a 45-day review and approval period on August 17, 2022. The 2023 STIP submission included air quality conformity determinations, public comment information and other supporting documentation. The Draft 2023 STIP received federal approval and went into effect on October 1, 2022.

The 2023 STIP includes \$28 billion (\$15.9 billion for Highway/Bridge and \$11.4 billion for Transit) in federal, state, local, and





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What laws and regulations are involved?

- Title 23 Code of [Federal Regulation 450](#)
- Title 23 Code of [Federal Regulation 904](#)
- Title 49 Code of [Federal Regulation 625](#)
- 49 U.S. Code 5303
- [Infrastructure Investment and Jobs Act \(IIJA\)](#), otherwise known as the Bipartisan Infrastructure Law (BIL)
- Pennsylvania Consolidated Statutes [Title 74](#)
- Pennsylvania Code [Title 67](#)
- [2025 Transportation Program Financial Guidance](#)
- [2025 Transportation Program General and Procedural Guidance](#)



How does it impact the planning process?

The STIP makes up the first four years of the [12-Year Program \(TYP\)](#).



Public Participation Opportunities

- Participate locally during the [regional TIP updates](#).
- Learn about [the STIP process](#).
- Participate in the [12-Year Program Update \(TYP\)](#).
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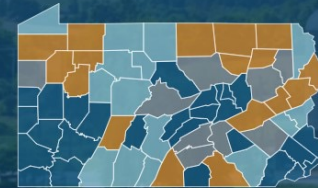
The 2023 STIP includes \$28 billion (\$15.9 billion for Highway/Bridge and \$11.4 billion for Transit) in federal, state, local, and private resources over the four-year period for capital improvements. The STIP consists of a list of prioritized projects/project phases identified for funding by federal fiscal year. The 2023 STIP includes Transportation Improvement Programs (TIPs) as adopted by each Metropolitan Planning Organization (MPO) and Rural Planning Organization (RPO), as well as the TIP for Wayne County, the centrally managed Interstate Management (IM) TIP and the Statewide Initiatives (STWD) TIP.

[Read the 2023 STIP \(PDF\)](#)[View the current 2023 STIP/TYP 5.30.23 \(XLS\)](#)[Learn about the STIP Process](#)

The 2023 STIP Project List

The 2023 STIP has been broken up by county to make searching easy. Select a county on map to view the regional TIP project lists. The Interstate and Statewide projects are grouped separately and can be viewed here: [Interstate](#) or [Statewide](#) Project Lists. Use the toggle below to switch between the TIP (2023-2026) project lists and the full TYP (2023-2034) list.

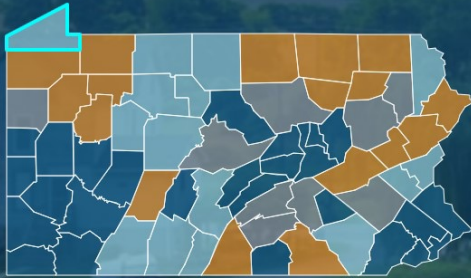
[Filter TIP](#) [Full TYP](#)



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☐ Filter TIP ☒ Full TYP



Erie County is part of
Erie Area Transportation Study's TIP

Search by Project ID or Title...

613 - Twenty Mile Creek Br
622 - PA 97: French Ck Brdg
995 - Columbus Ave, Corry Brdg
1003 - Grubb Rd Brdg over Elk Creek
1122 - Erie County Bridge Waterproofing #1 - 2026
47500 - Moore House Road Bridge over I-90
47501 - SR 4108: Jordan Rd/I-90

Project Funding Estimate

Project ID: 613

Project Administrator: PENNDOT

Improvement Type: Bridge Rehabilitation

Municipality: North East

Actual Bid Date:

Location: US 20 (East Main Street) Bridge over Twenty Mile Creek in North East Township

Project Description: This project includes the rehabilitation along with a four (4) mile detour of the US 20 (East Main Street) Bridge over Twenty Mile Creek in North East Township. The bridge is 376 feet in length.

Title: Twenty Mile Creek Br

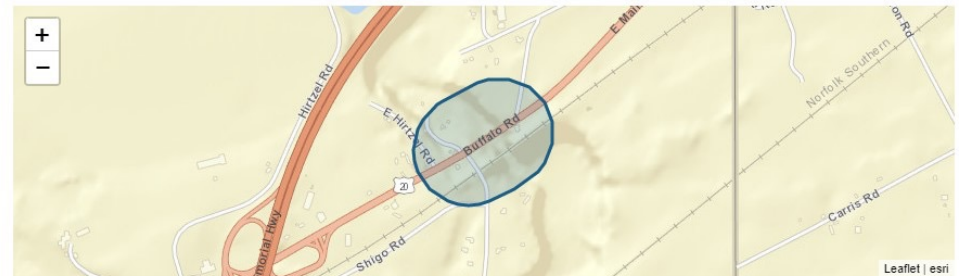
State Route: 20

Air Quality Status: Exempt from Regional Conformity Analysis

Estimated Bid Date: 1/1/2023

Project Costs (In Thousands)

Fund	2023	2024	2025	2026	2027-2030	2031-2034
State	\$1800	\$0	\$0	\$0	\$0	\$0
Total FFY 2023-2034 Cost: \$1,800						



[View on OneMap](#)

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State Transportation
Commission

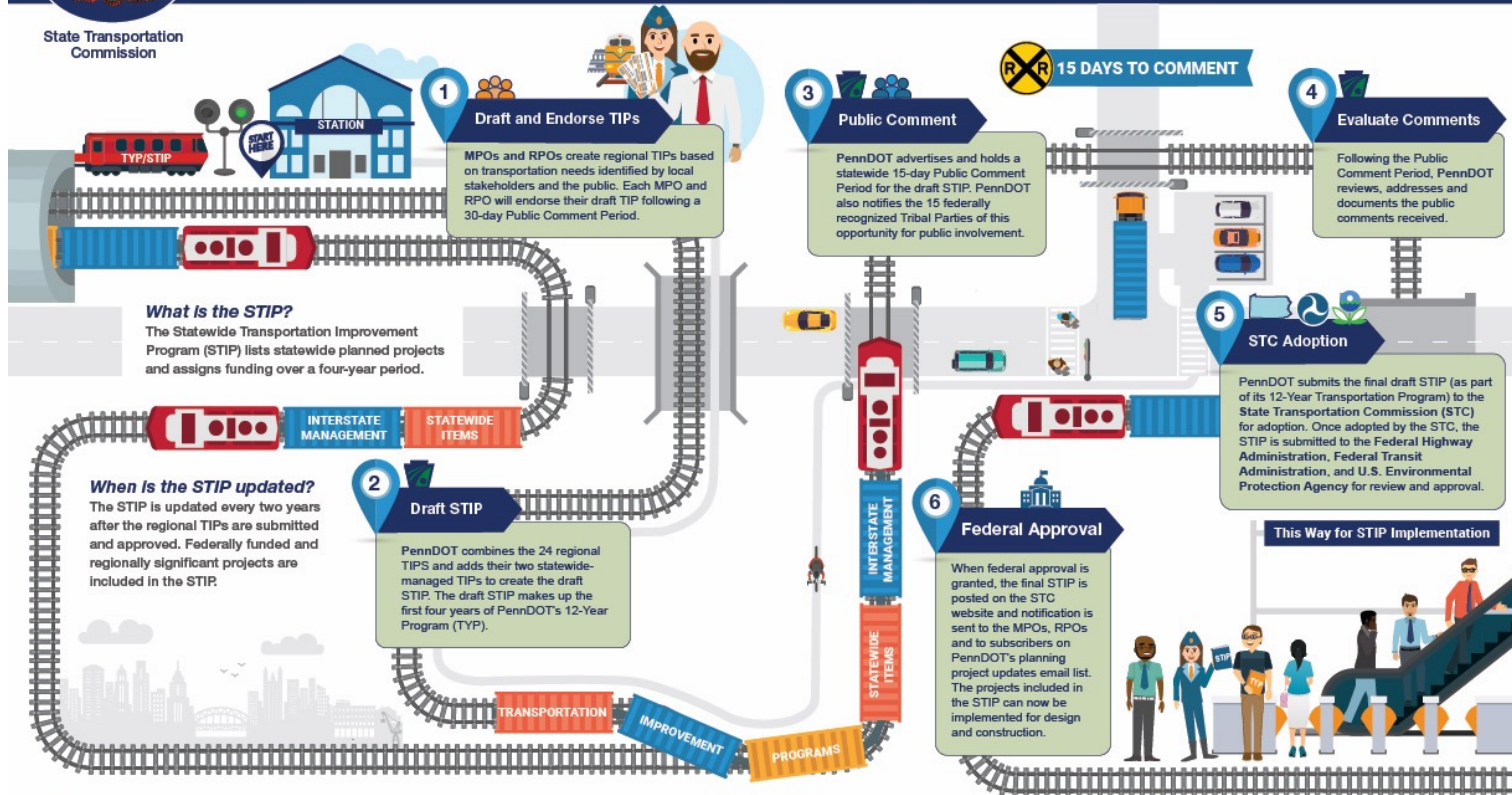
TAKE A TRIP THROUGH THE STIP PROCESS

Get your ticket and climb aboard



FOR MORE INFORMATION
ABOUT THE STIP, VISIT:

www.talkpatransportation.com/how-it-works/stip





State Transportation
Commission

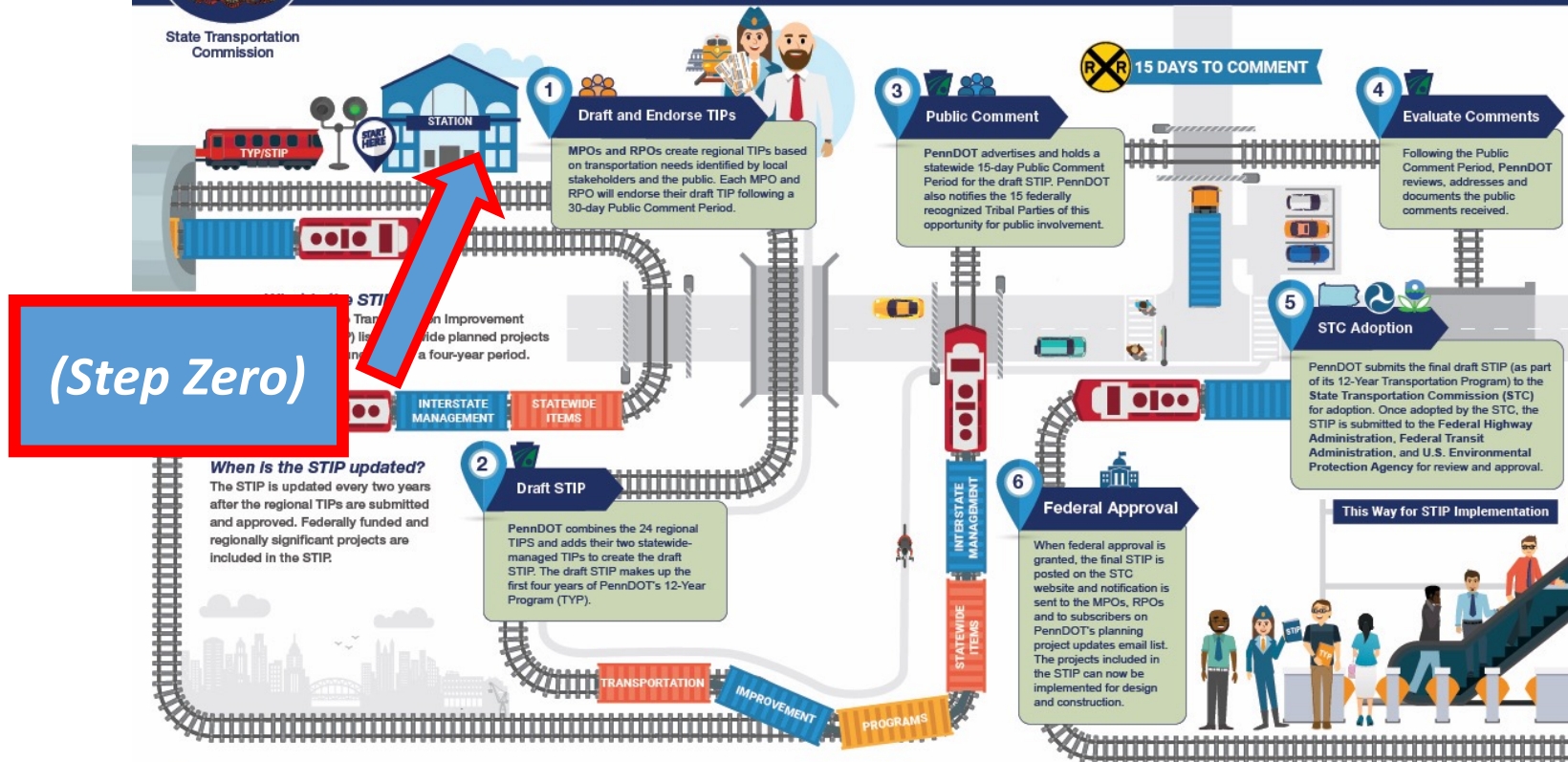
TAKE A TRIP THROUGH THE STIP PROCESS

Get your ticket and climb aboard

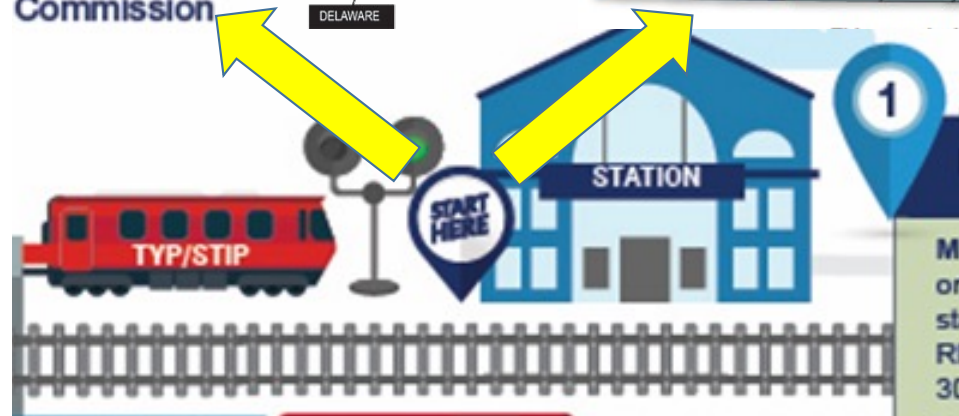
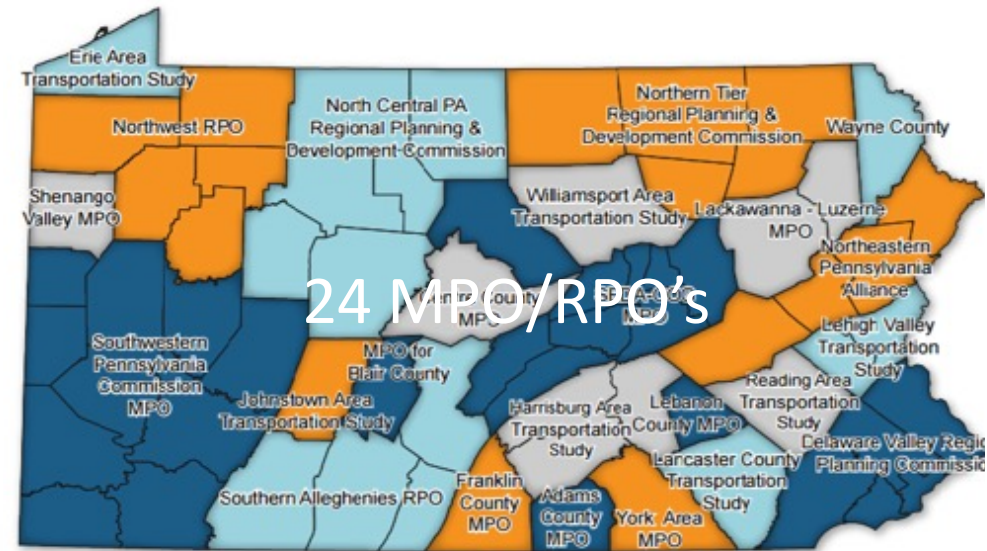
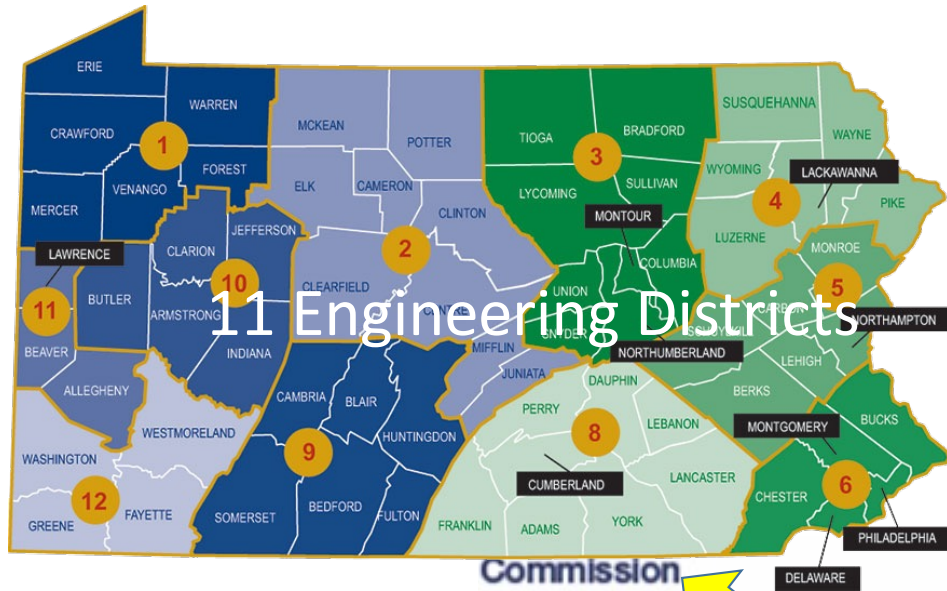


FOR MORE INFORMATION
ABOUT THE STIP, VISIT:

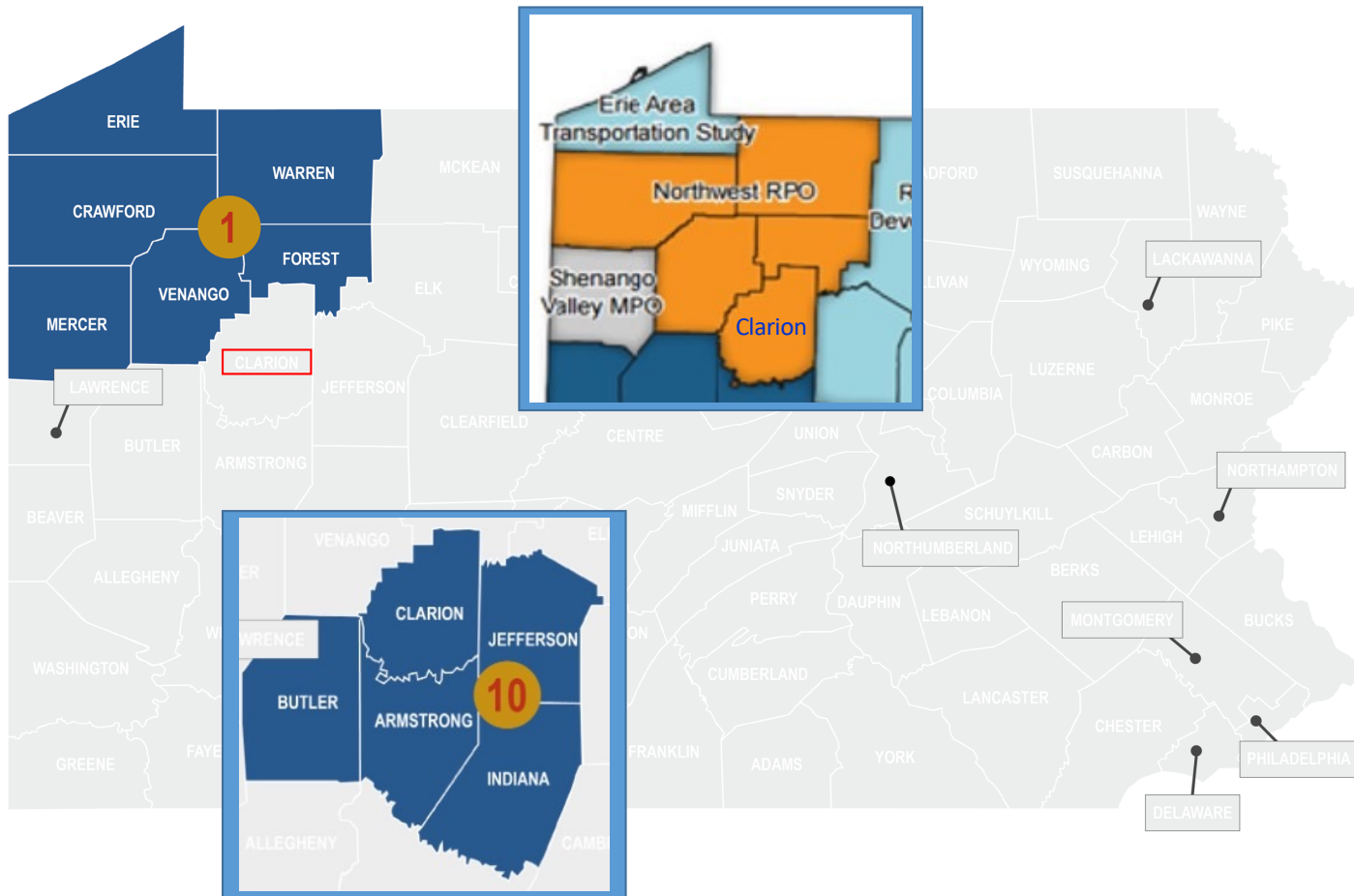
www.talkpatransportation.com/how-it-works/stip



LOGISTICS

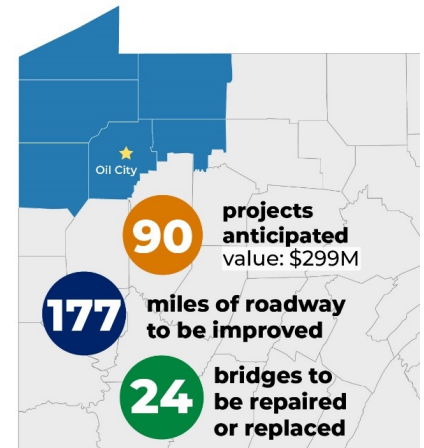


LOGISTICS



2022 Construction Preview

District 1 



\$20.5M more invested locally thanks to the **Bipartisan Infrastructure Law**.

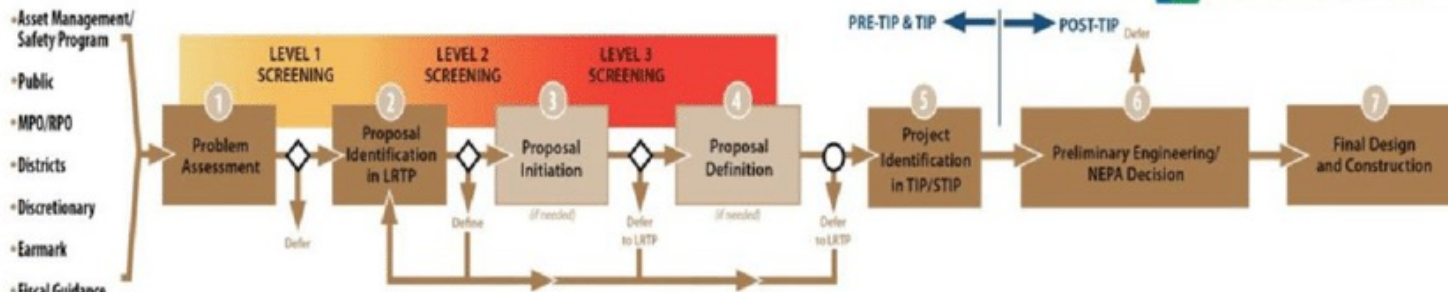


AS-IS TIP PROCESS

2022 Construction Preview

District 1 

Transportation Program Development and Project Delivery Process



0 projects anticipated value: \$299M

0 miles of roadway to be improved

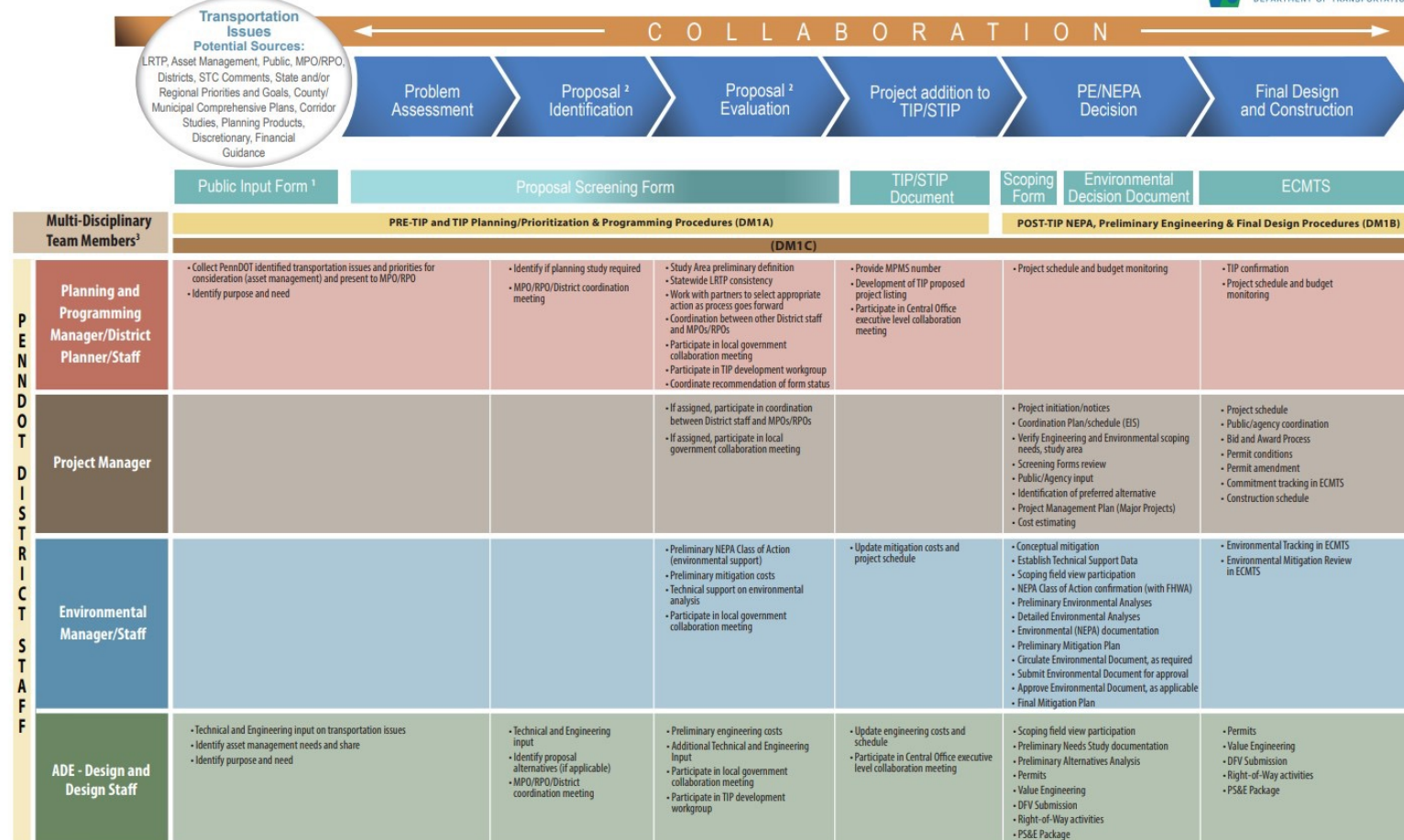
4 bridges to be repaired or replaced

are invested locally to the **Bipartisan Infrastructure Law**.



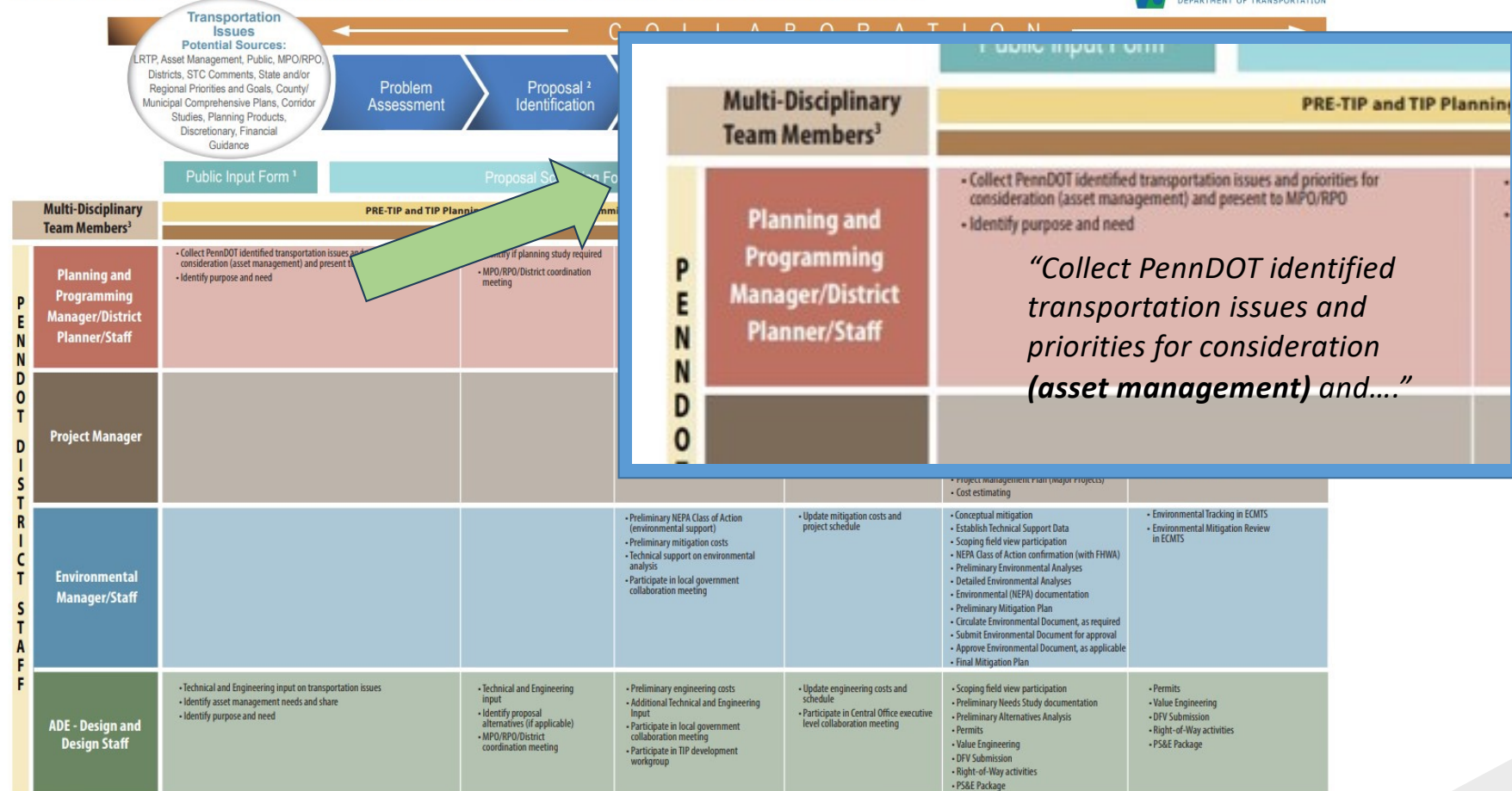
AS-IS TIP PROCESS

Transportation Program Development and Project Delivery Process Responsibilities



AS-IS TIP PROCESS

Transportation Program Development and Project Delivery Process Responsibilities



AS-IS TIP PROCESS



Assessment of Highway and Bridge Project Prioritization and Selection Procedures

Report Prepared for:
Pennsylvania Department of Transportation
400 North Street
Harrisburg, Pennsylvania 17120

Report Prepared by:
Spy Pond Partners, LLC
37 Broadway
Arlington, Massachusetts 02474

with

Michael Baker International
4431 North Front Street
Harrisburg, Pennsylvania 17110

February 28, 2023

Spy Pond Partners, LLC

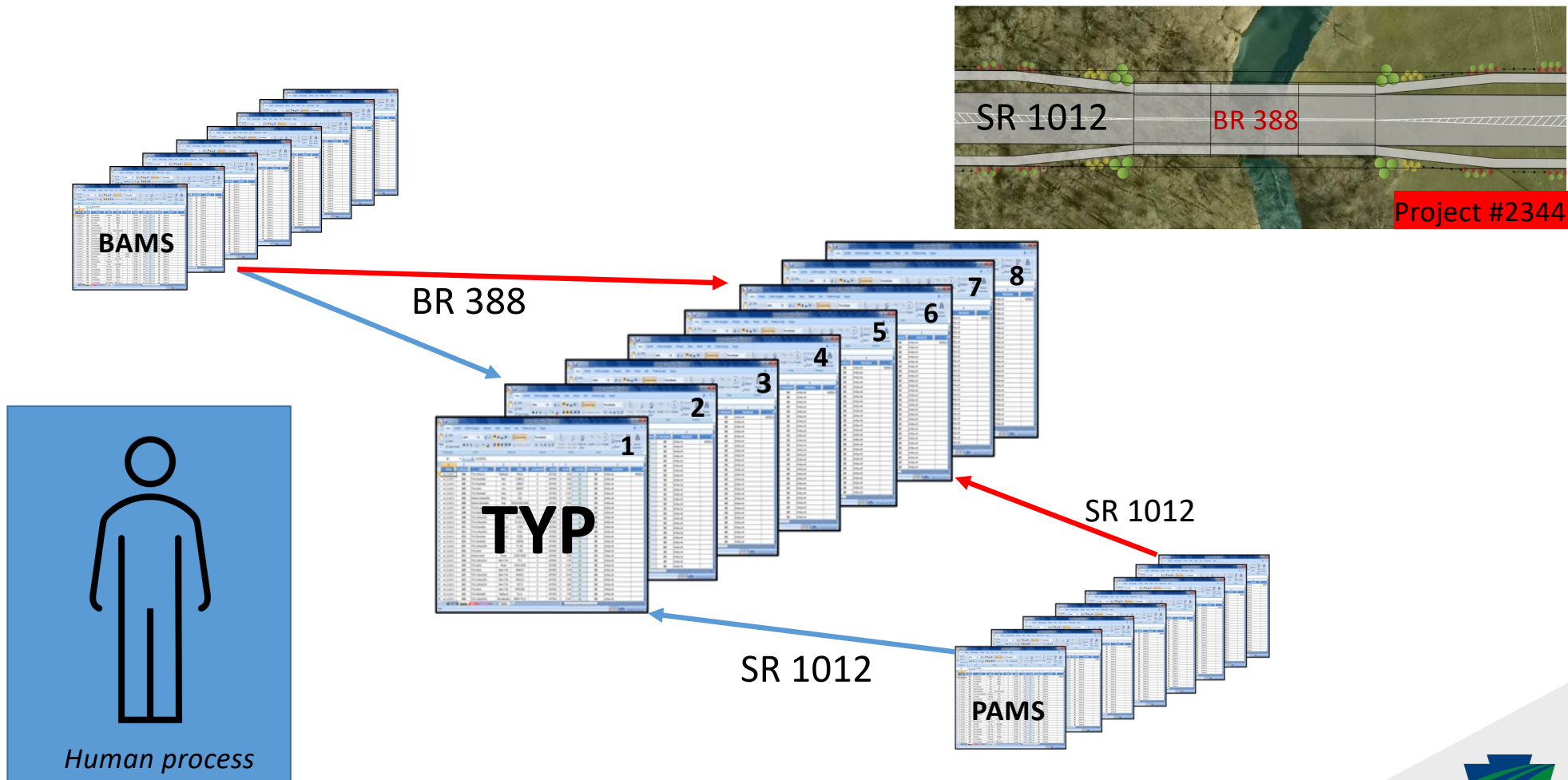
Updated March 8, 2022

PENNSYLVANIA 2023 TRANSPORTATION PROGRAM FINANCIAL GUIDANCE

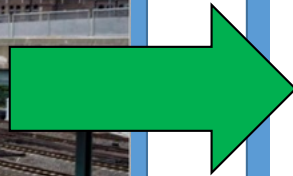
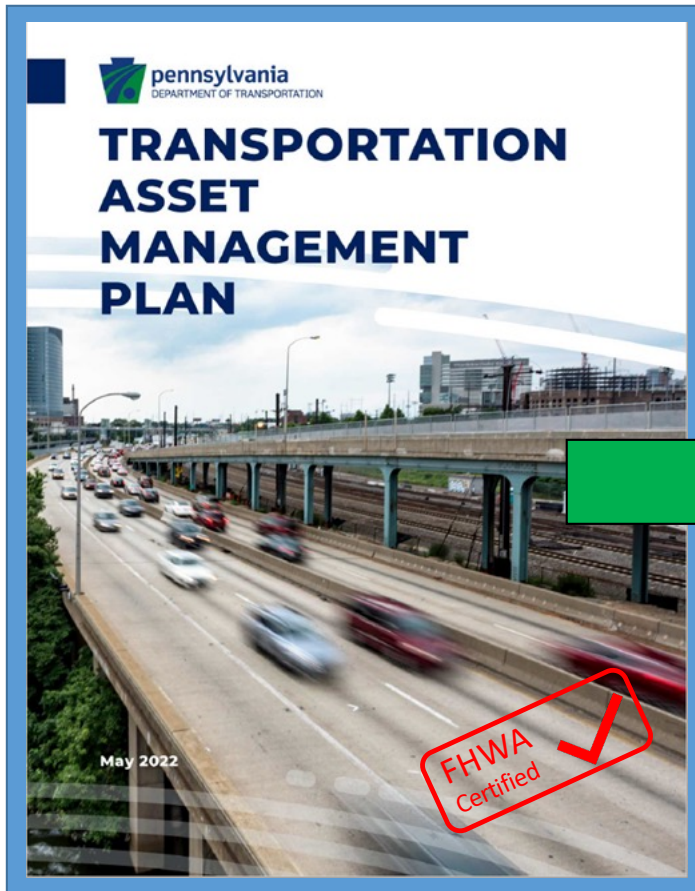
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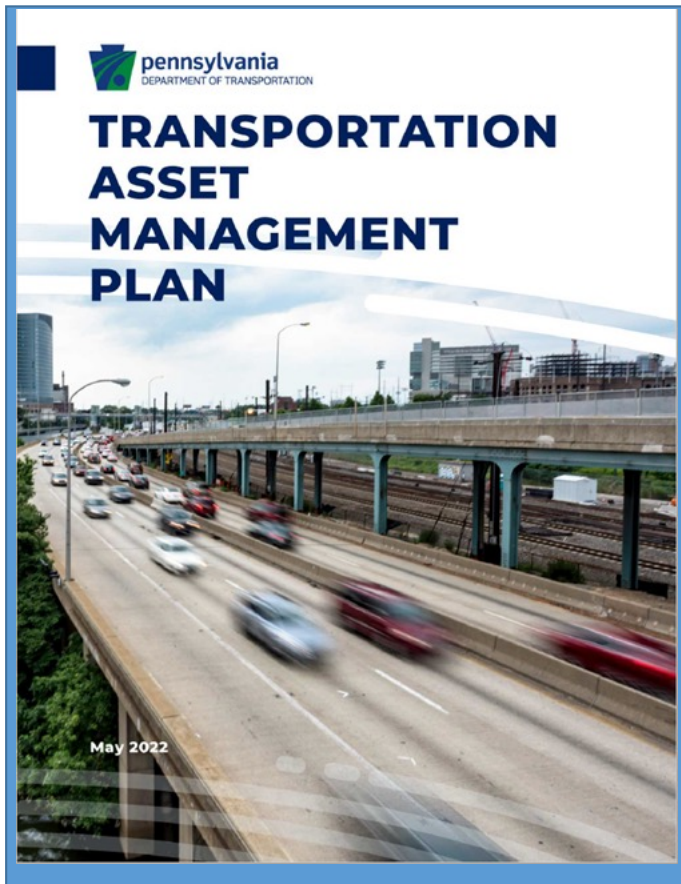
SHOULD-BE TIP PROCESS



TO-BE PROCESS



TO-BE PROCESS



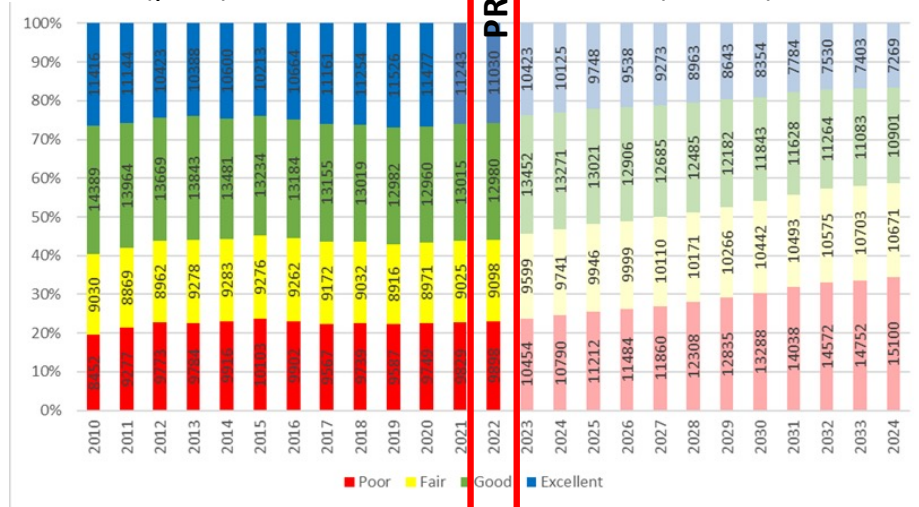
Bridge



(past)

(future)

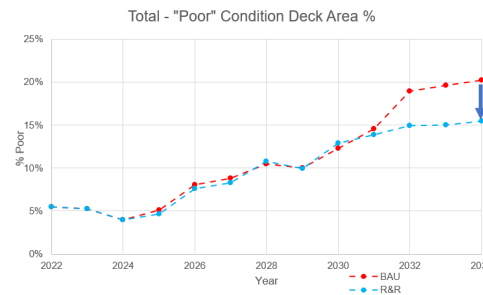
Pavement



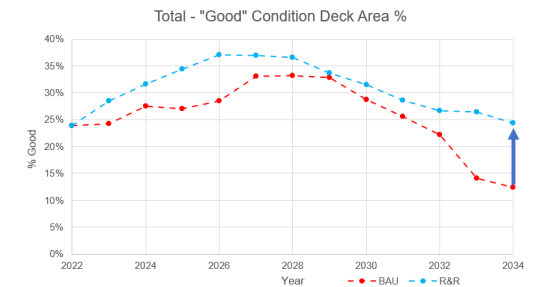
TO-BE PROCESS

BRIDGE PLANNING – TIP UPDATE

- HATs TYP – Business As Usual vs Revised & Rescoped



Base 31% reduction in "Poor" bridges at same funding levels

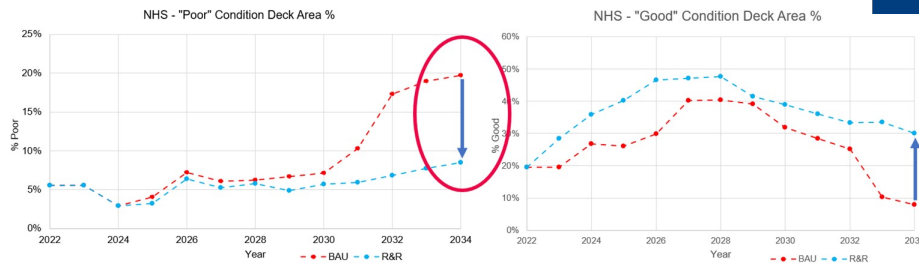


Base 96% increase in "Good" bridges at same funding levels



BRIDGE PLANNING – TIP UPDATE

- HATs TYP – Business As Usual vs Revised & Rescoped

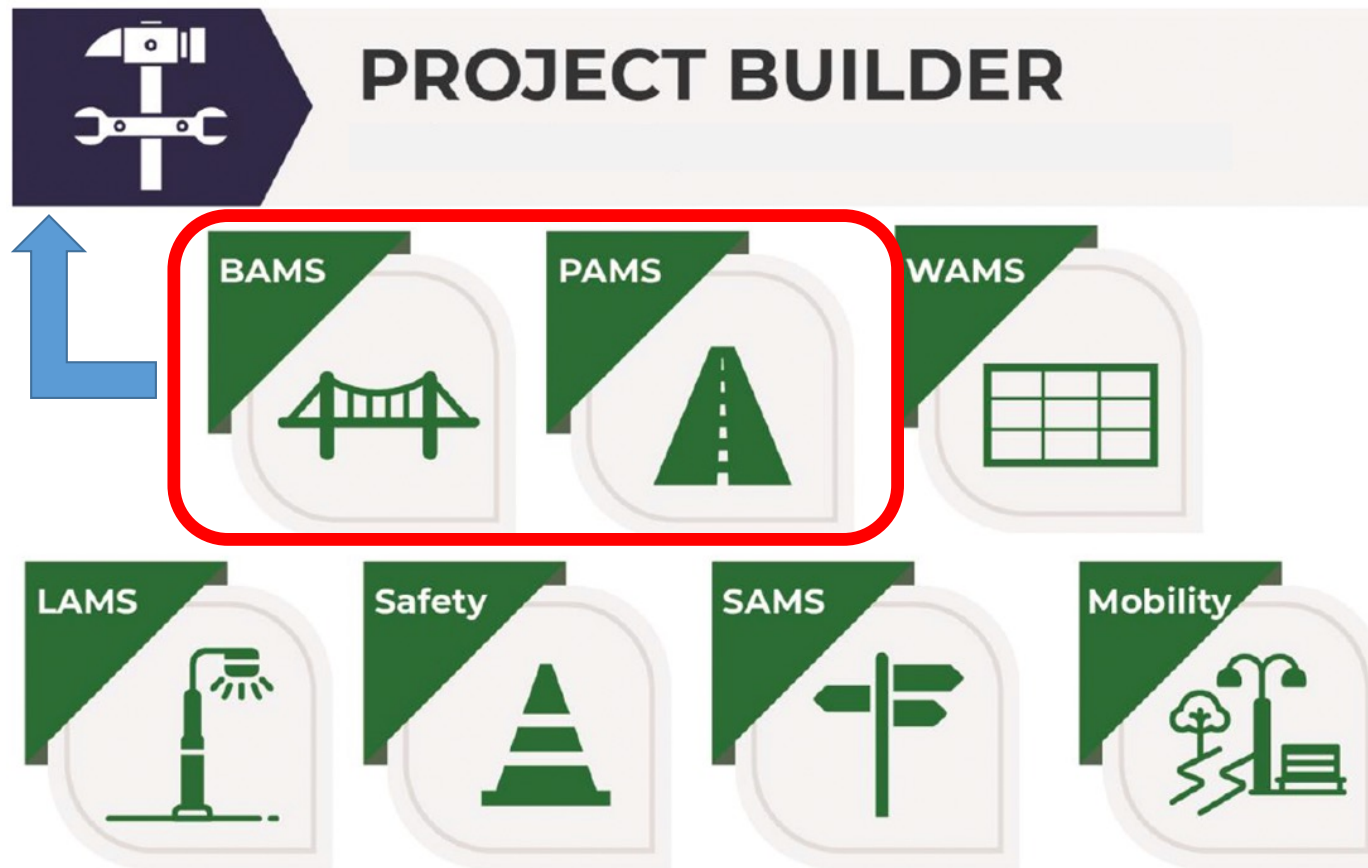


Base 57% reduction in "Poor" NHS bridges at same funding levels

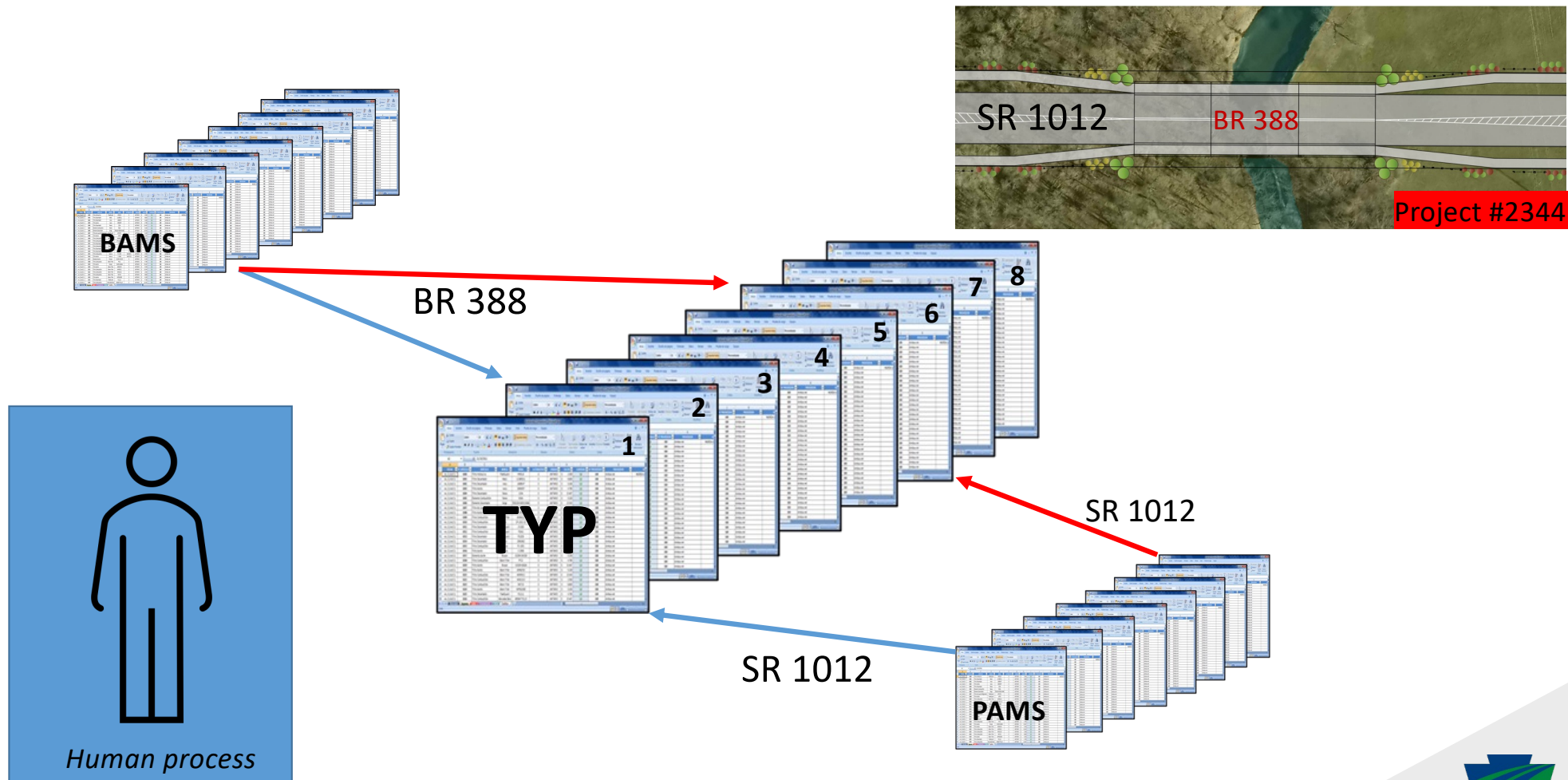
Base 276% increase in "Good" NHS bridges at same funding levels



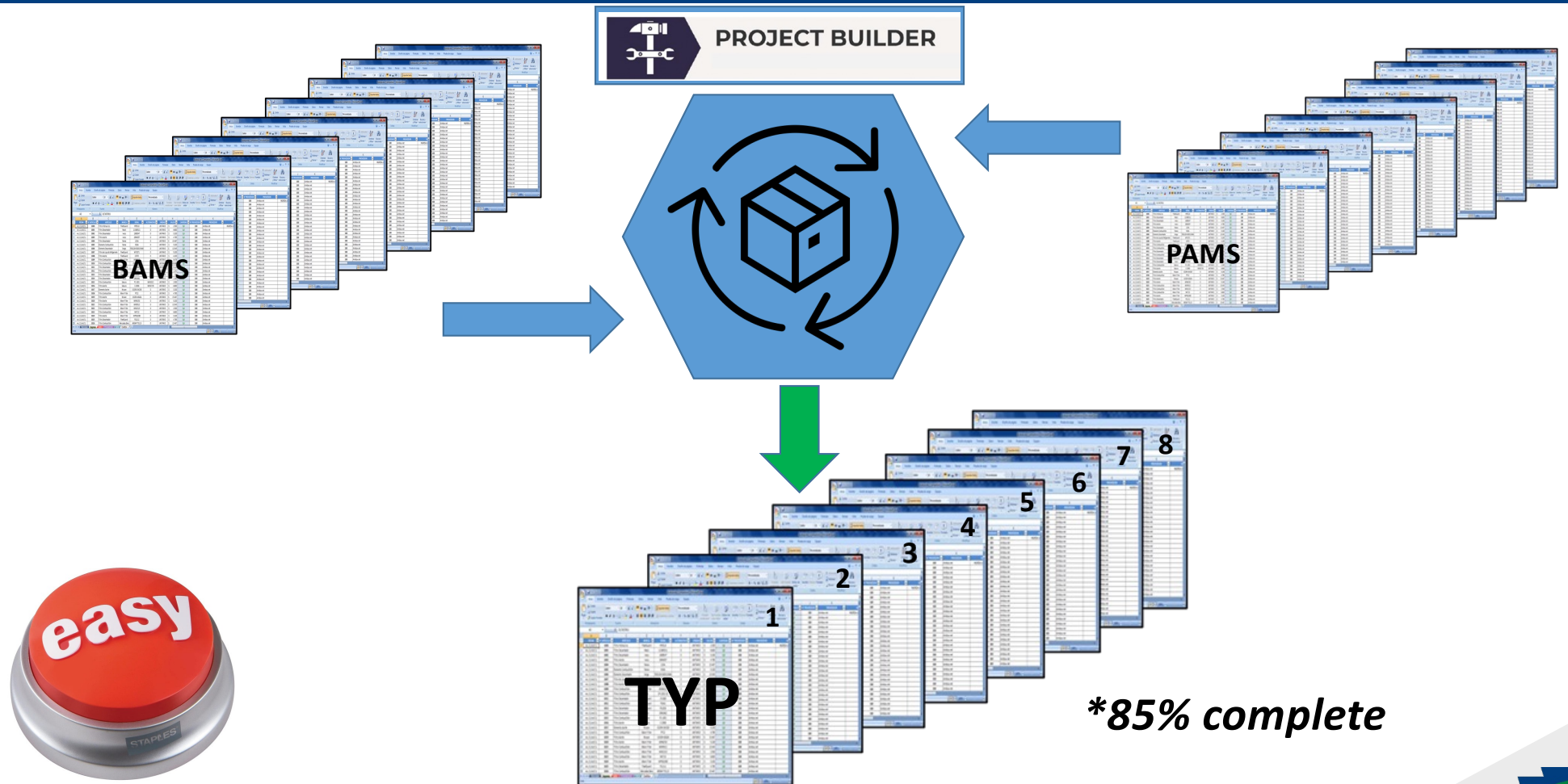
TO-BE PROCESS



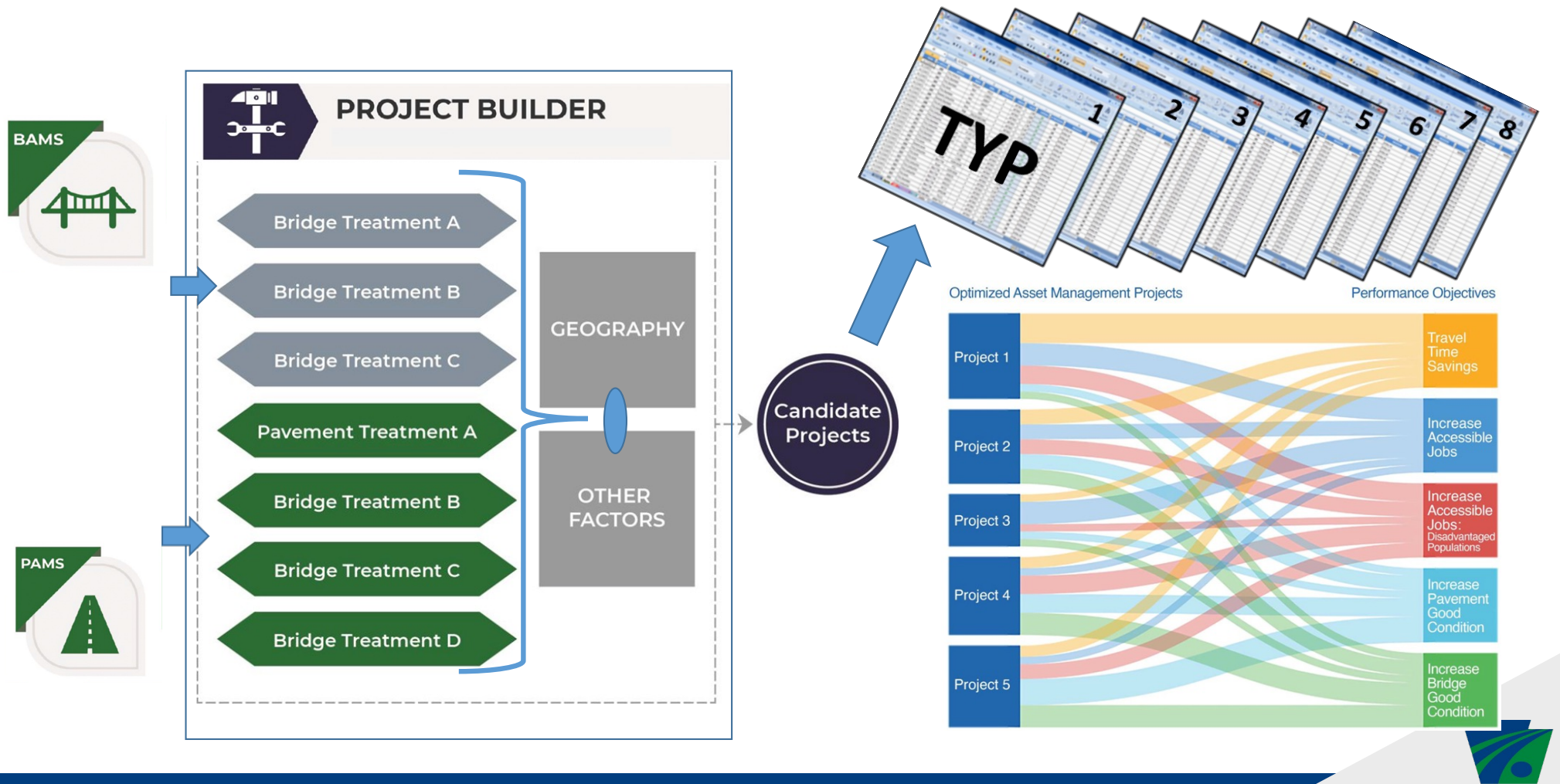
SHOULD-BE PROCESS



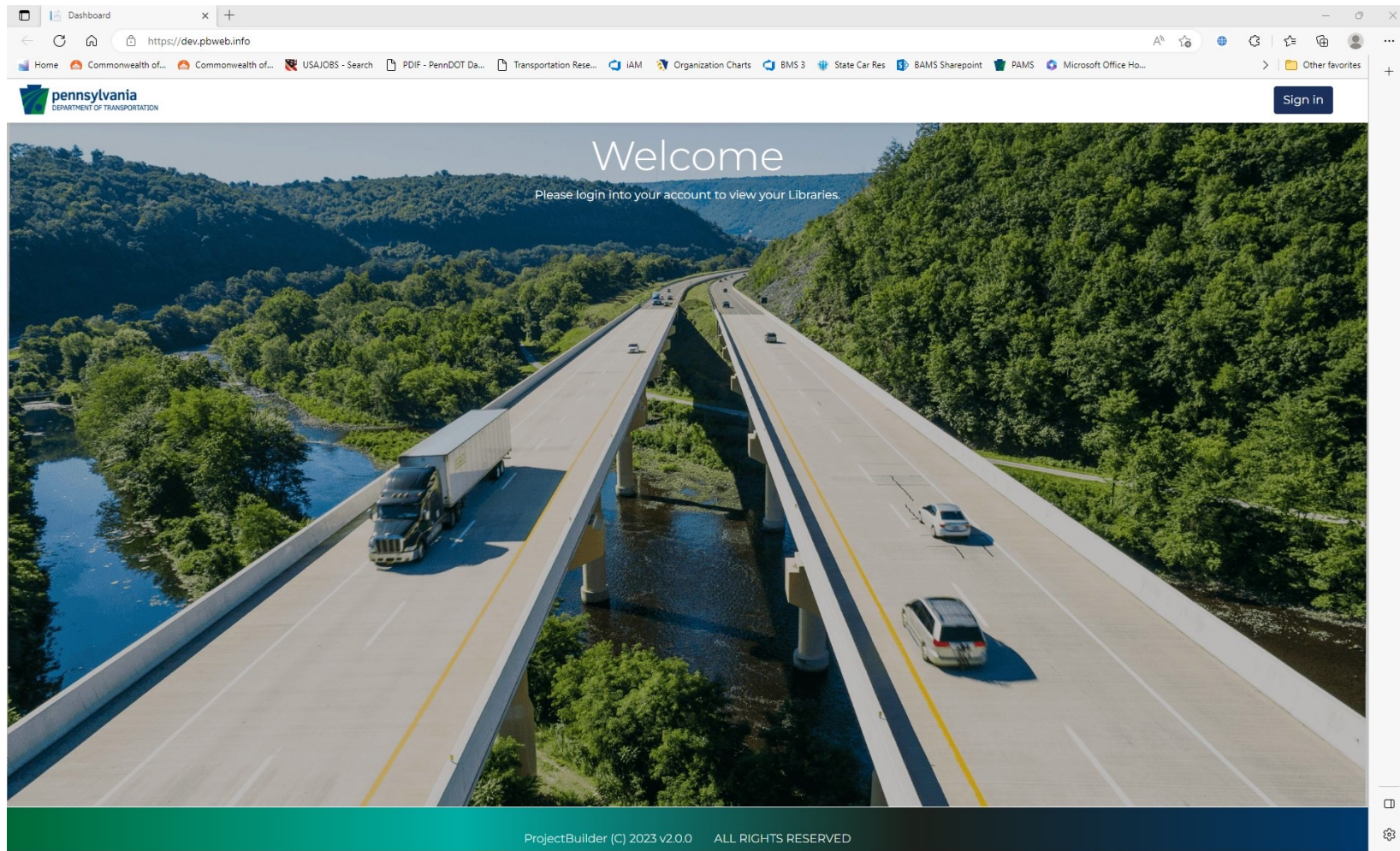
TO-BE PROCESS





TO-BE PROCESS





TO-BE PROCESS





TO-BE PROCESS



Justin - PennDOT 

 Home

 Libraries



 Treatments 

View



 Scenarios 
















View

Run

 Projects 



View

 Visualization 

Name	Description	Number of Treatments	Shared	Owner	Actions
Shared_Test1	A library that is setup to be shared	2151	✓	Raghu - Krys	  
new library omar	library description	441	✓	TO	  
New Library	Description for the new library	90	✓	Raghu - Krys	  
test	test to see if we can update a library	0	✓	TO	  
DG-Library-2	DG-Library-2	2183	✓	Dmitry	  

Create Library Import Treatments

ProjectBuilder (C) 2023 v2.0.0 ALL RIGHTS RESERVED





TO-BE PROCESS

Home

Libraries

Treatments

Scenarios

Projects

Visualization

Map

Charts

Reports

Map

13-demo scen 18Select CountySelect RouteSelect TreatmentGenerate Map

FILTER BY: PROJECT YEARPROJECT TYPETREATMENT

project id...

PROJECT ID: 3
Type: **Bridge** Year: **2023**
Bridges: **1**
Pavement Segments: **0**
Total Cost: **\$57,035**
THIS PROJECT COULD NOT BE MAPPED

PROJECT ID: 19
Type: **Bridge** Year: **2023**
Bridges: **1**
Pavement Segments: **0**
Total Cost: **\$121,670**

PROJECT ID: 21
Type: **Bridge** Year: **2023**
Bridges: **1**
Pavement Segments: **0**
Total Cost: **\$892,500**

PROJECT ID: 24
Type: **Bridge** Year: **2023**
Bridges: **1**

20 km
10 mi

Leaflet | Powered by Esri | Kutztown University, Baltimore County Government, Centre County Government, County of Chester, Lehigh County PA, WashCo MD, York Co...

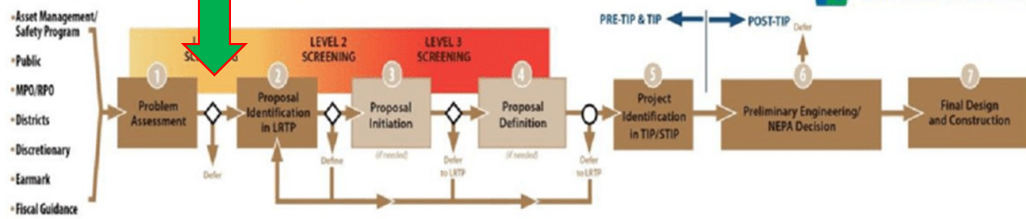


TO-BE PROCESS

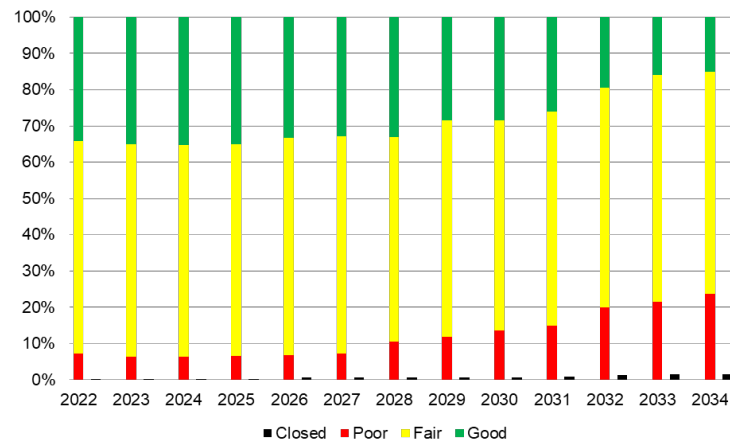


PROJECT BUILDER

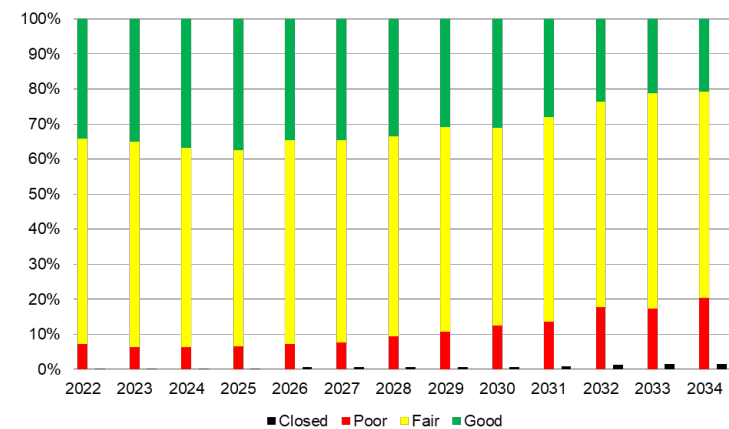
Transportation Program Development and Project Delivery Process



Original



Revised



Questions?

jbruner@pa.gov

Code: <http://repo.iam-demo.net>



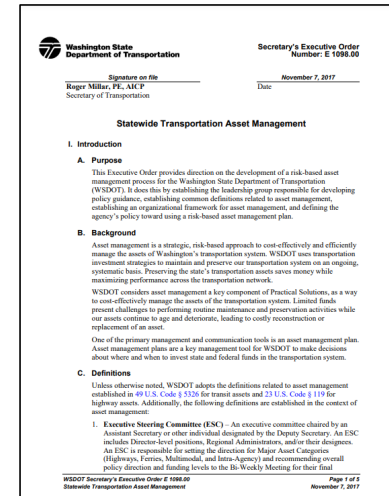
FHWA/AASHTO Asset Management Peer Exchange

Jonathan Fok
Asset Management Specialist
July 8-9, 2023

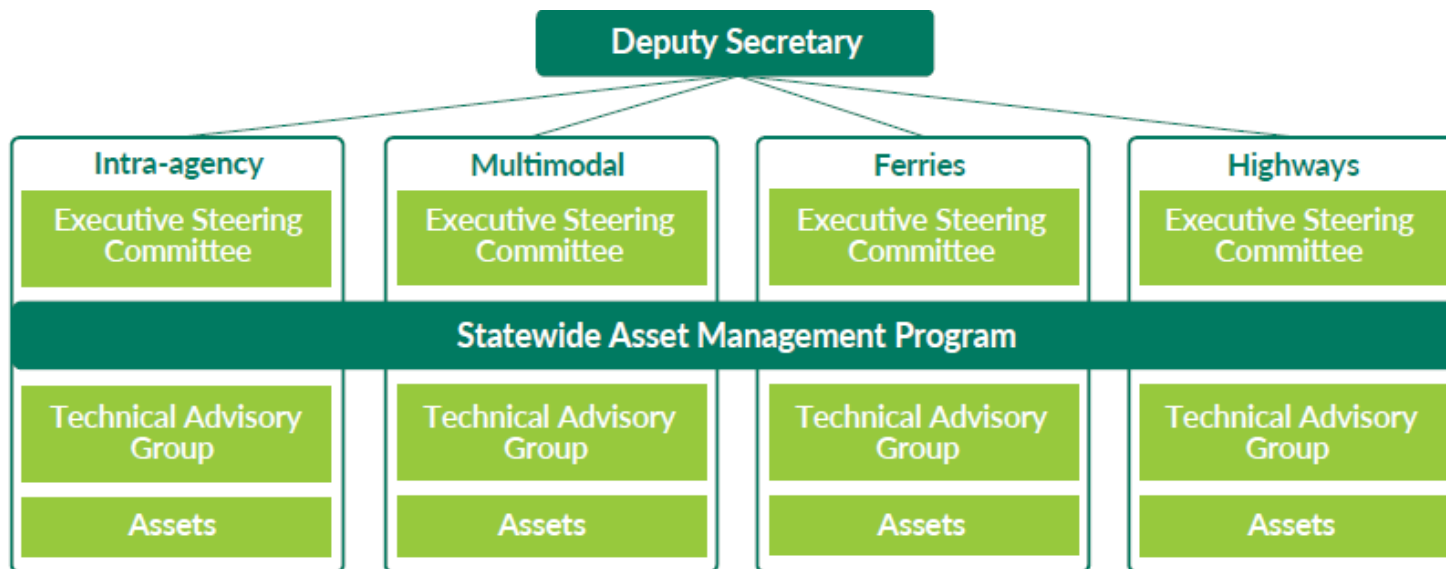
Roger Millar, Secretary of Transportation
Amy Scarton, Deputy Secretary of Transportation

WSDOT's Executive Order for Asset Management

- The Statewide Transportation Asset Management Executive Order (1098.00) provides direction on the development of a risk-based asset management process for the Washington State Department of Transportation (WSDOT).
- It does this by:
 - Establishing the leadership group responsible for developing policy guidance;
 - Establishing common definitions related to asset management;
 - Establishing an organizational framework for asset management; and
 - Defining the agency's policy toward using a risk-based asset management plan.



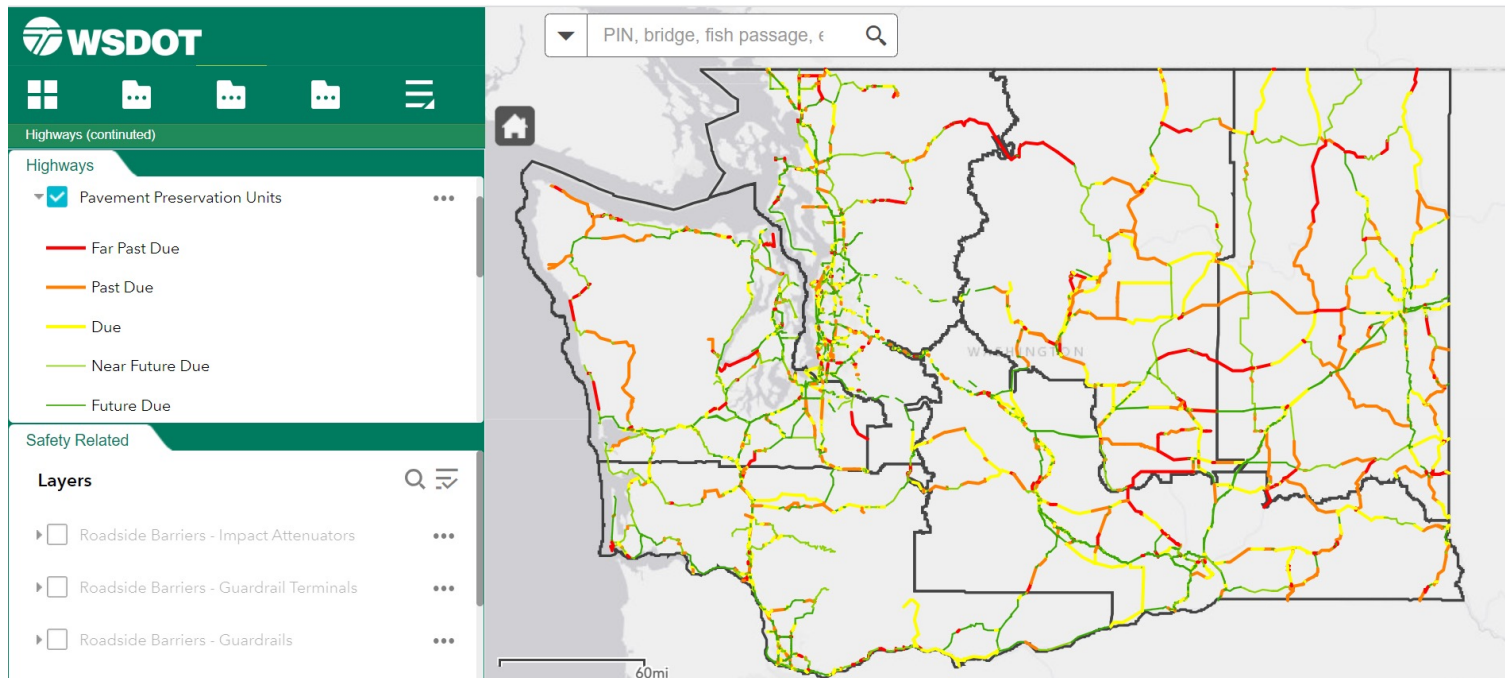
Statewide Transportation Asset Management Organization Structure



WSDOT Data Systems to Support Asset Management

- WSDOT has several Asset Management systems:
 - Pavement Management System (WSPMS)
 - Bridge Engineering Information System (BEIS)
 - Capital Facilities Management System (CAFM)
 - Fleet Equipment Management System (FEMS)
 - Others
- WSDOT has several Maintenance Management systems:
 - Highway Activity Tracking System (HATS)
 - Maintenance Productivity Enhancement Tool (MPET)
 - Others
- WSDOT has several Financial Management systems:
 - Transportation Executive Information System (TEIS)
 - Program Management System (CPMS)
 - Others

WSDOT Asset Management GIS Application



Next Steps

- WSDOT is continuing to document our current business processes to determine gaps through the Asset Management Plans
 - Many asset classes beyond Pavement and Bridge have less mature data to be able to inform a more robust analysis for communicating needs
- WSDOT is continuing to strengthen the connection between asset management planning and asset management implementation
 - Incorporating more assets (and asset attributes) into the Asset Management GIS Application beyond Pavement and Bridge

Questions?

Jonathan Fok
Washington State DOT (WSDOT), Asset
Management Specialist
fokjona@wsdot.wa.gov

