



**OCTOBER 30, 2024**

**JONATHAN A. EBOLI, P.E.**  
ACTING CHIEF EXECUTIVE - HIGHWAY ADMINISTRATION

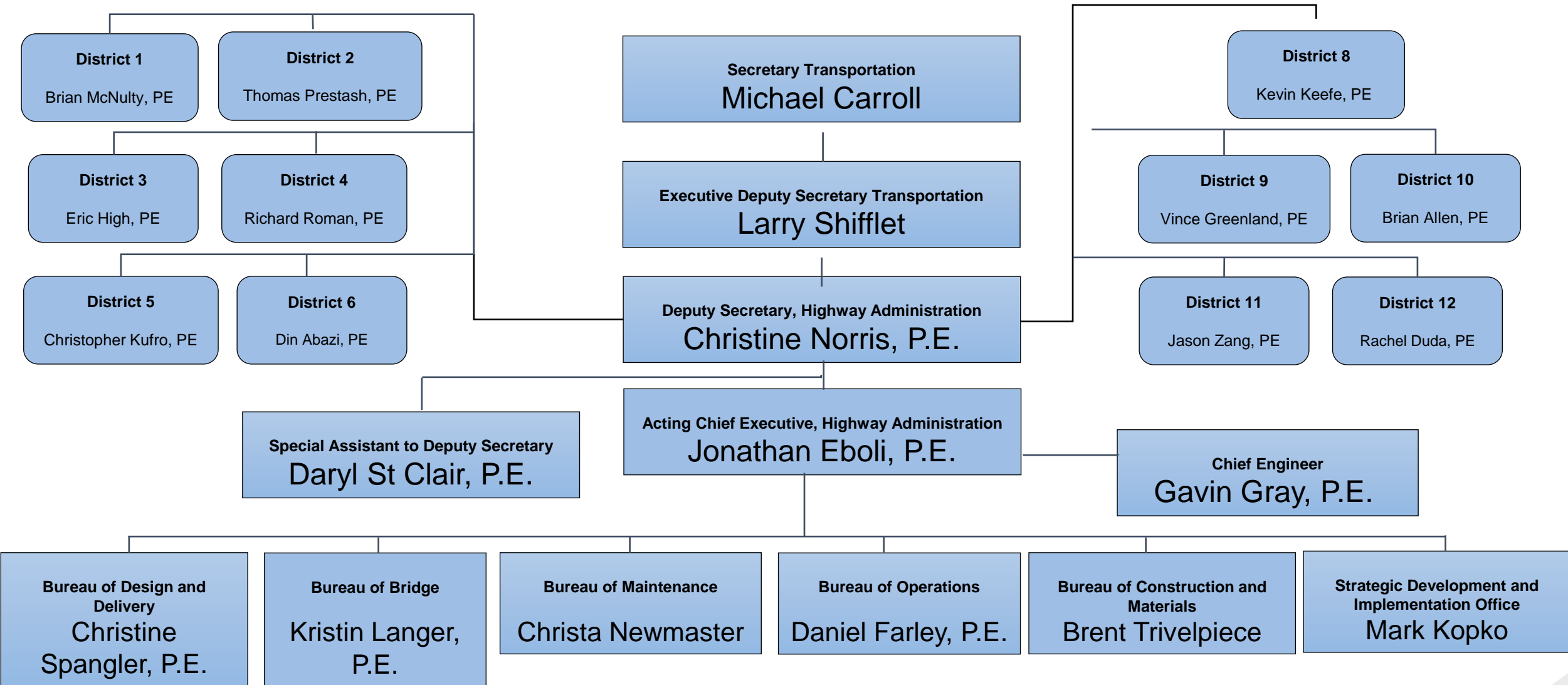


Pennsylvania  
Department of Transportation



\*Total miles on all PA roadways

# HIGHWAY ADMINISTRATION ORGANIZATION



# FOCUS AREAS



**Safety**



**Program Delivery**



**Program Outlook**



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# SAFETY THROUGH PARTNERSHIPS

- **WORKFORCE**



- **WORK ZONES**



- **FAMILIES**



- **PUBLIC**



# SAFETY THROUGH PARTNERSHIPS

## Improving Safety in the Transportation and Construction Industry

- Addressing common hazards
- Improving safe work conditions for all
- Informed and educated workforce
- Using different media such as video to disseminate information

Cold & Heat  
Stress

Vehicle Overhead  
Clearance Hazards

Prepping for  
construction seasonal  
activities

Employee  
Work Zone  
Safety

Hazard  
Identification

**Goal: Decreased catastrophic events, especially fatalities**





# WORK ZONE SPEED SAFETY CAMERAS

2024 ANNUAL REPORT

## Automated Work Zone Speed Enforcement



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- Annual report published April 2024
- Covers from start of program to end of 2023
- Program is fulfilling its stated goals
- Program is focused on **SAFETY**, not revenue
- 68% of deployments have been to short-term patterns



# WORK ZONE SPEED SAFETY CAMERAS



**15-50% decrease**

In work zone crashes when  
AWZSE enforcement is present

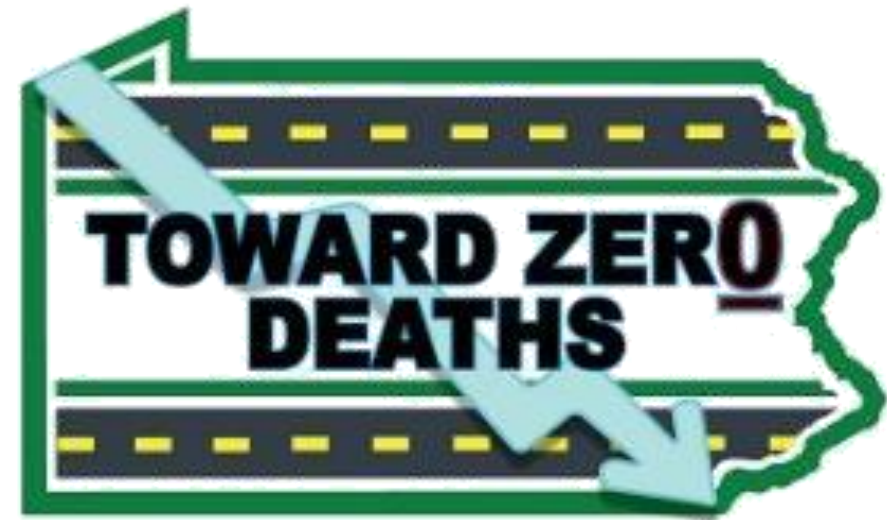




# WORK ZONE SPEED SAFETY CAMERAS

- **PILOT PROGRAM STATS**

- MARCH 2020 – FEBRUARY 2024
- 12,000+ DEPLOYMENTS
- 1.5M+ VIOLATIONS ISSUED
- **16.9% REPEAT RATE**



- **PERMANENT PROGRAM STATS (AS OF JUNE 30, 2024)**

- HARD RESET OF VIOLATIONS TIERING AT START OF PERMANENT PROG.
- MARCH 2024 – JUNE 2024 / 876 DEPLOYMENTS
- 69,000+ VIOLATIONS ISSUED
- **2.0% REPEAT RATE**



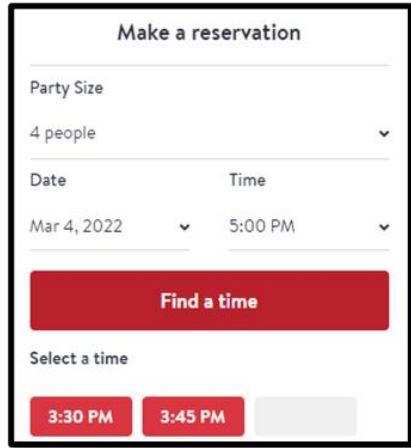
# WORK ZONE SPEED SAFETY CAMERAS

	DEPLOYMENTS	VIOLATIONS PER DEPLOYMENT	VIOLATIONS ISSUED	% WITH ONE VIOLATION	% WITH TWO VIOLATIONS	% WITH THREE+ VIOLATIONS
PENNDOT	7,008	97	678,715	84.4%	11.0%	4.6%
PA TURNPIKE	5,067	174	883,729	82.1%	12.3%	5.6%
PROGRAM TOTAL	12,075	129	1,562,444	83.1%	11.7%	5.2%

**PILOT PROGRAM STATS**



# WORK ZONE SAFETY



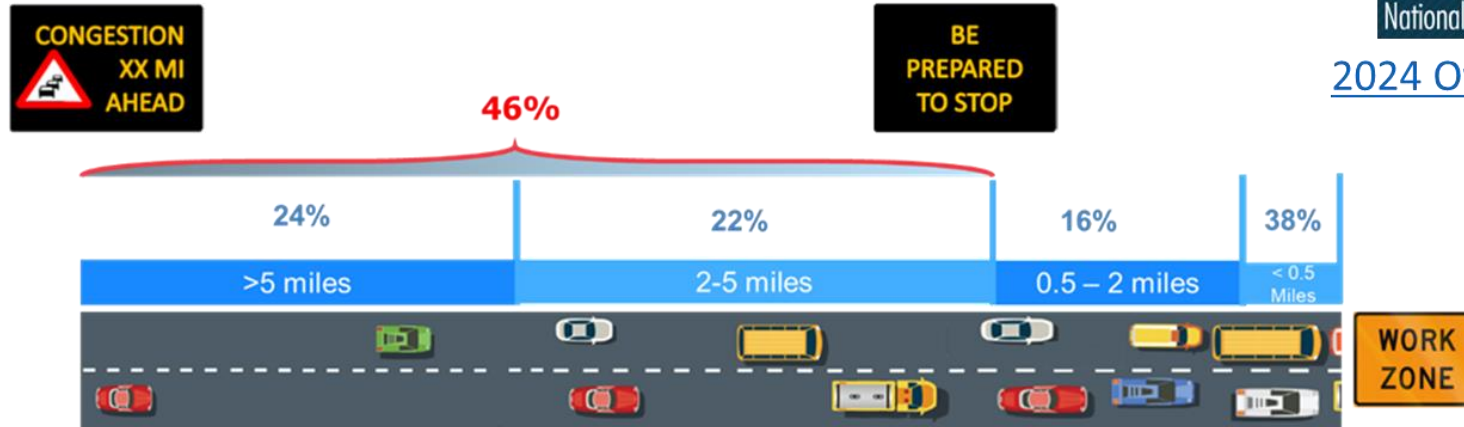
## Lane Reservation (LaneRez)



## Green Lights

## Virtual Queue Protection

1153 Crashes in Work Zone Congestion on the Core Network in 2023

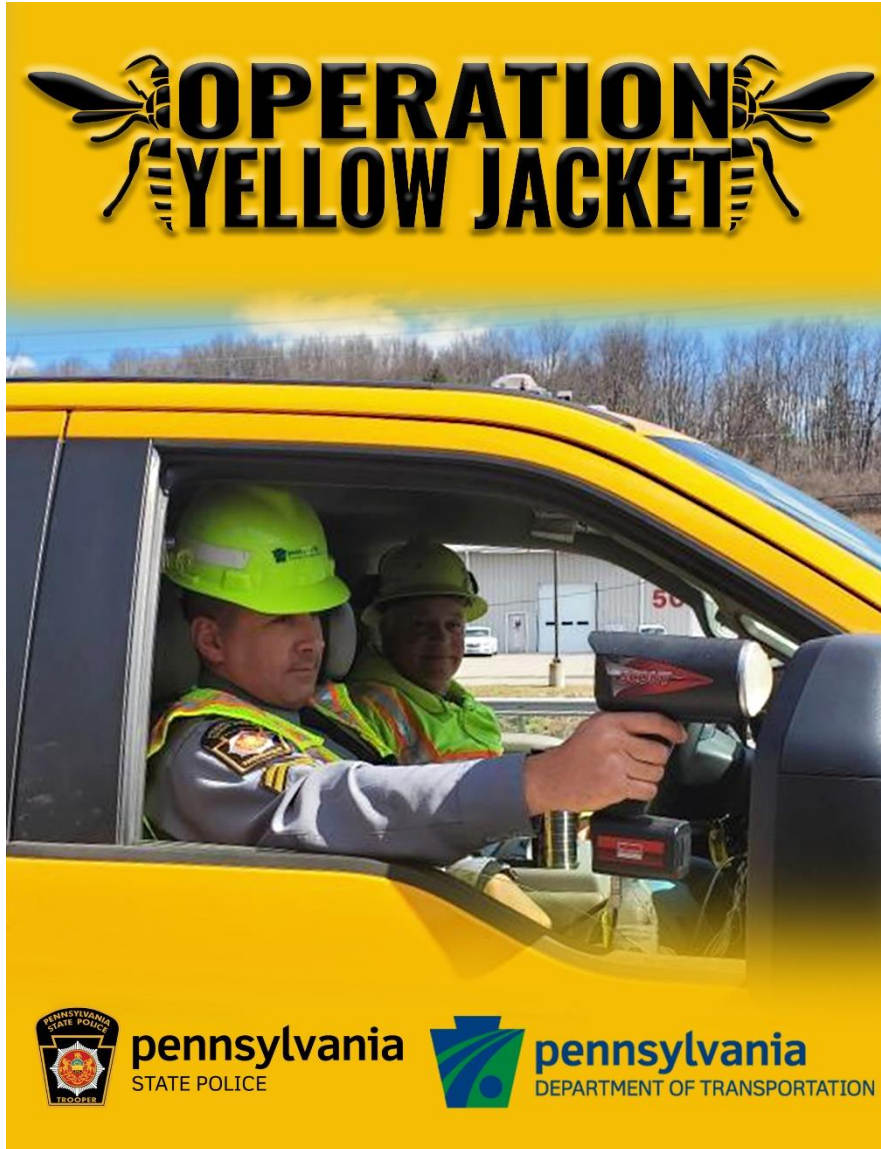


2024 Overall Award Winner  
Case Study

## Variable Speed Limits



# YELLOW JACKET



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STATE POLICE



**pennsylvania**  
DEPARTMENT OF TRANSPORTATION



# SMALL HABITS

Saving \$8/day = \$3k/year

Reading 20 pages/day = 30 books/year

Walking 10,000 steps/day = 70 marathons

18 mins / day

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Never underestimate the power of small habits or a THANK YOU



# **PROGRAM DELIVERY**

- ASSET MANAGEMENT**
- INNOVATION**
- FUNDING**





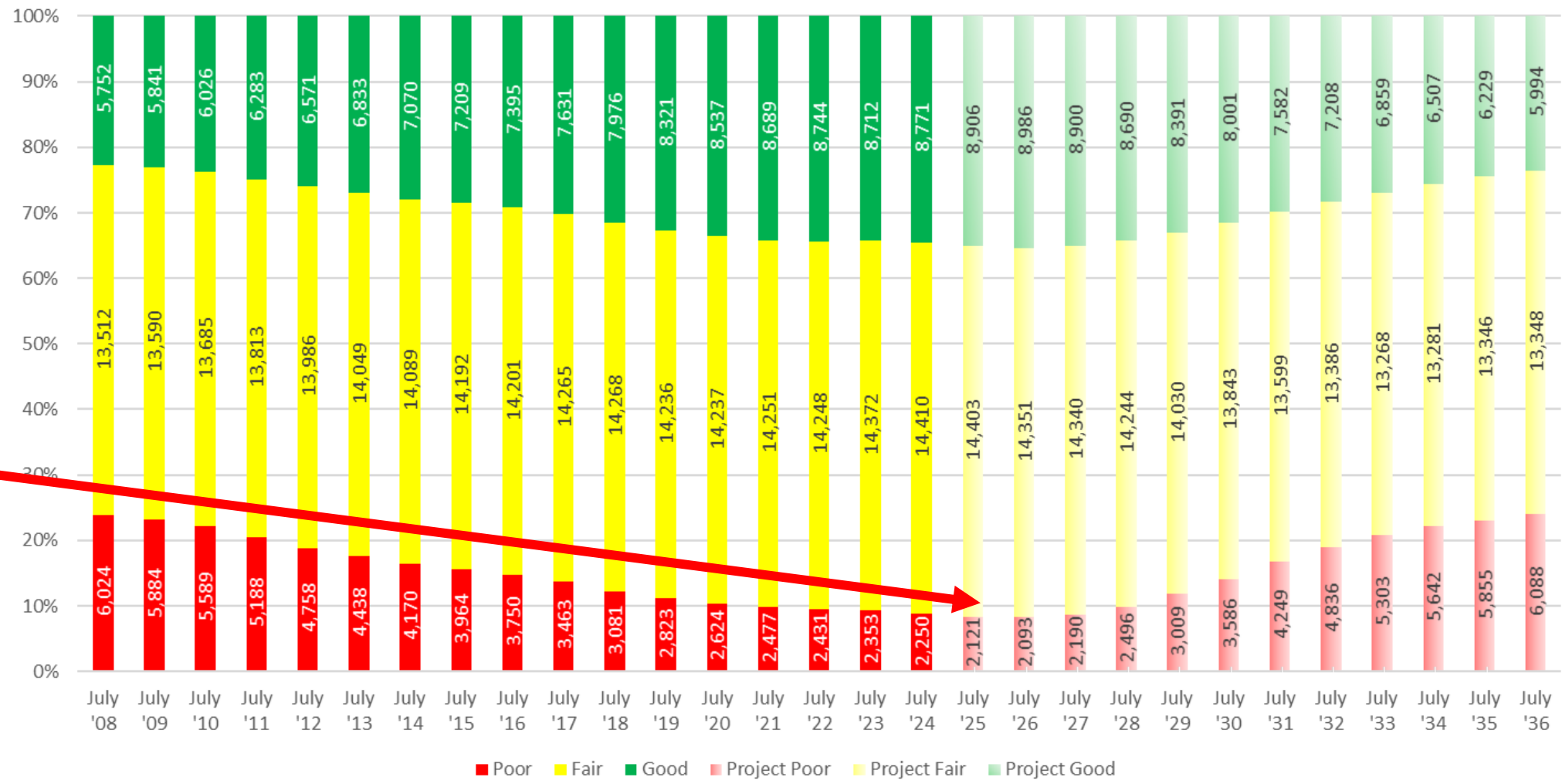
# ASSET MANAGEMENT



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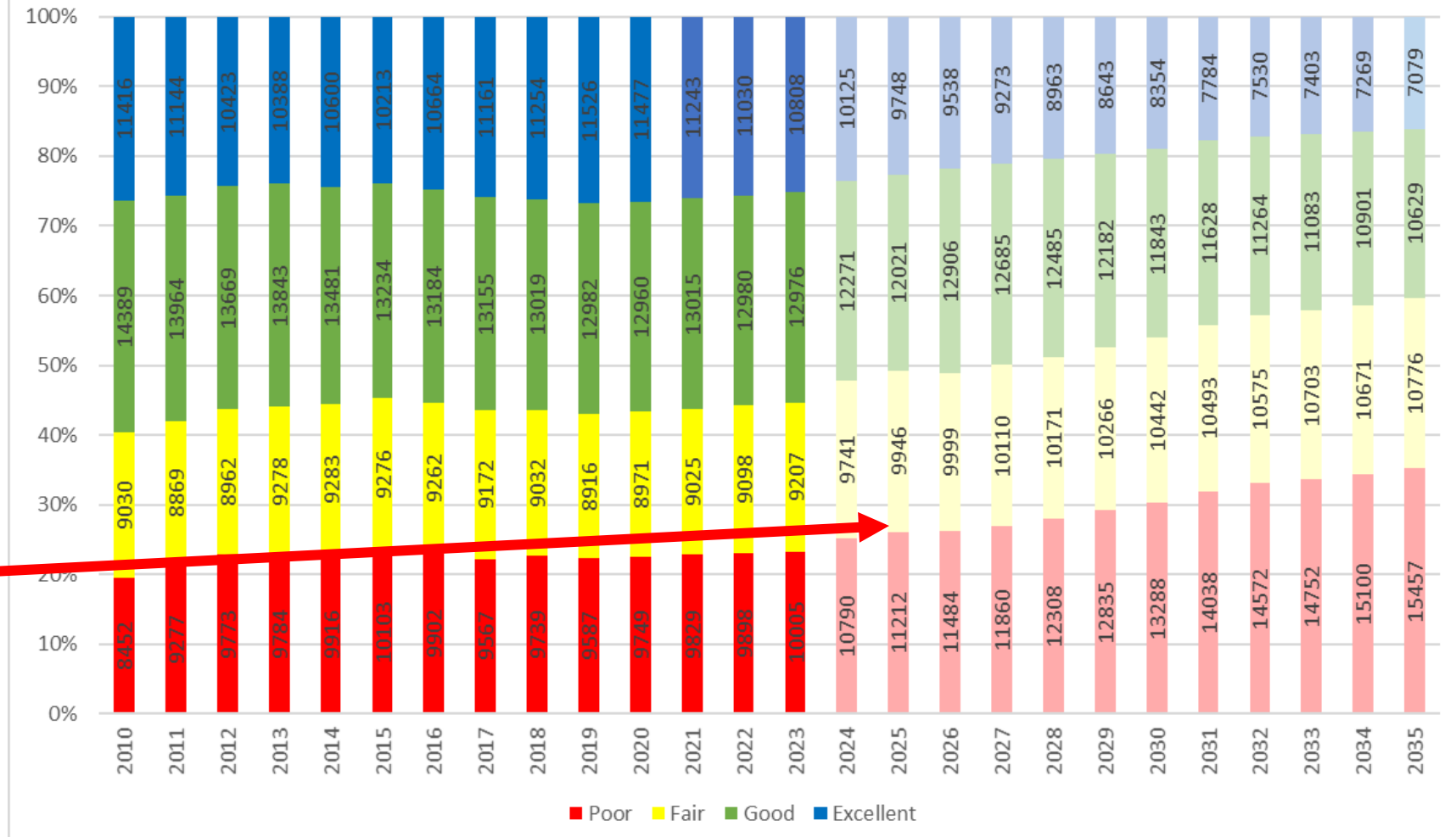
# BRIDGES - STATE OF GOOD REPAIR

State Owned - Bridge Condition by Count:  
2008-2024 Actual, 2025-2036 Projected



# ROADWAYS - STATE OF GOOD REPAIR

Statewide - Pavement Condition 2011-2023 Actual  
2024-2035 Projected  
(Miles of Pavement)



# INNOVATION



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# MOBILE APPLICATIONS (APPS)



eConcrete



Mileage &  
Hour Log



Sample ID



eTicketing



Maintenance  
& Protection  
of Traffic



Visual Site  
Inspection  
Report



Force Account



Project Site  
Inspection



MC DOCs

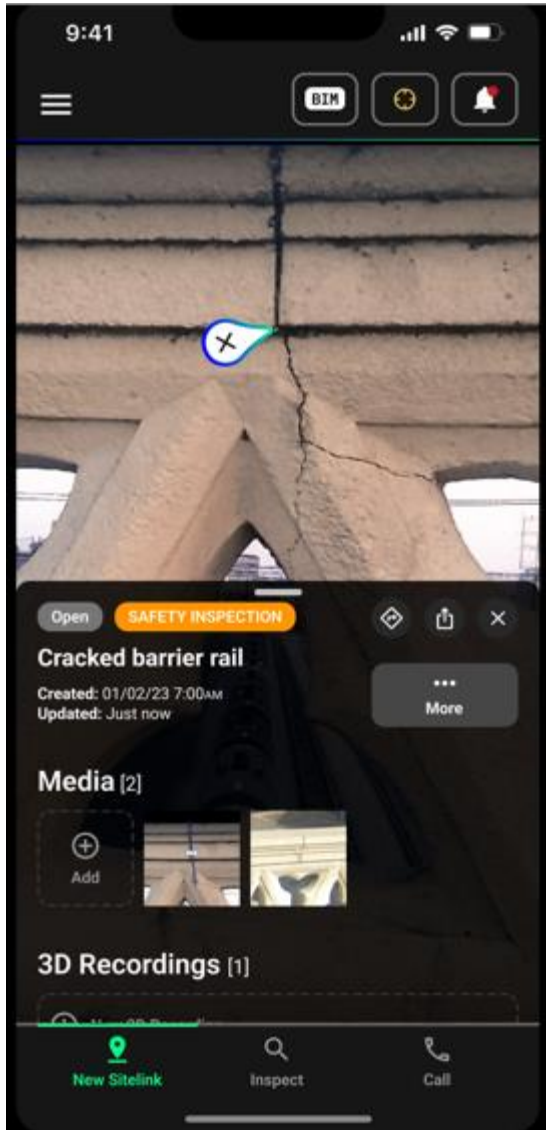


Punchlist





# MOVING INTO A VIRTUAL WORLD



Augmented Reality & Construction Analytics



Unmanned Aircraft Systems

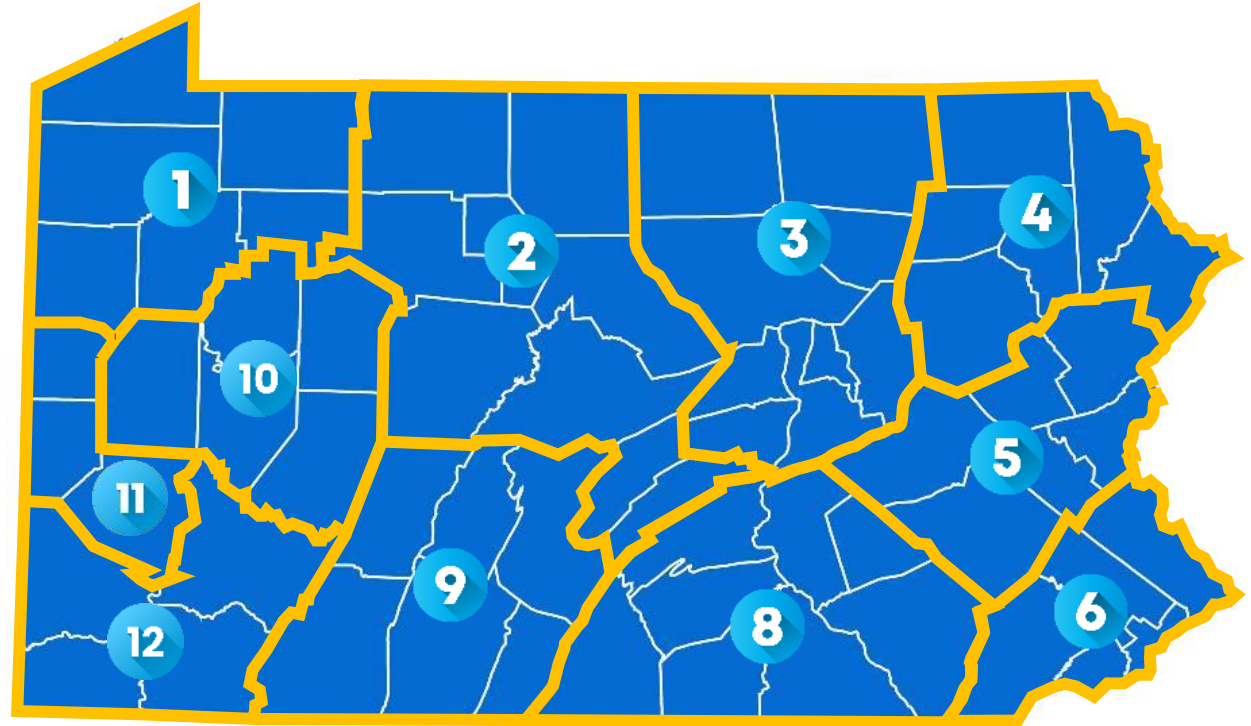




# DIGITAL DELIVERY DIRECTIVE

## Vision Statement

By 2025, construction projects will have the ability to be bid using 3D technology and no longer be in a traditional construction plan format.



23

Pilot projects being designed and constructed across the state using model-based approach for a standardized digital delivery process.



# FUNDING



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# BI-PARTISAN INFRASTRUCTURE LAW (BIL)

FFY	PA Increased Formula Highway and Bridge Funding	PA Federal Formula Highway and Bridge Funding Totals (Existing + New)
2022	\$704.7 M	\$2.5 B
2023	\$748.2 M	\$2.5 B
2024	\$792.5 M	\$2.6 B
2025	\$837.7 M	\$2.6 B
2026	\$883.9 M	\$ 2.7 B
<b>5-year Total</b>	<b>\$4 B</b>	<b>~\$13 B</b>



# FUNDING PROJECTS – CASH FLOW

- **The FY 24-25 State Budget reduced PSP funding from the Motor License Fund by \$125 Million**
  - Highway Maintenance was increased by \$75 Million
  - Highway Construction was increased by \$50 Million
- **At least \$2.8 Billion letting program is sustainable for calendar year 2024.**
  - The future lettings will continue to be evaluated especially as the federal IIJA funding is exhausted in FFY 2026.
- **\$80.5 Million for Local Roads and Bridges**



# CURRENT INVESTMENTS

- **Increased investments received from the following sources:**
  - Bipartisan Infrastructure Law (BIL)
  - State Motor License Funds (MLF)
- **Passage of Electric Vehicle (EV) Fee Senate Bill 656:**
  - While it will not solve funding challenges, it is an important starting point
- **Current revenue sources include:**
  - **Gas tax revenues: Account for 75% of Roadway and Bridge Budget**
  - Oil Company Franchise Tax: unlikely to increase in the near future
- **Other options must still be explored to reliably fund transportation**



# ROADS AND BRIDGES

- **Roadway numbers through July 2024 include:**
  - **164** construction contracts completed statewide through private-sector partners
  - **246** state and locally owned bridges were let to be repaired, replaced, or preserved
  - **2,256** miles of roadway were improved, including **773** miles paved
- **\$500 million Large Bridge Program grant**
  - Largest federal transportation grant ever received by Pennsylvania through Federal Highway Administration's (FHWA) competitive Bridge Investment Program
  - Funding the replacement of I-83 South Bridge: connects downtown Harrisburg to the west shore in Cumberland County



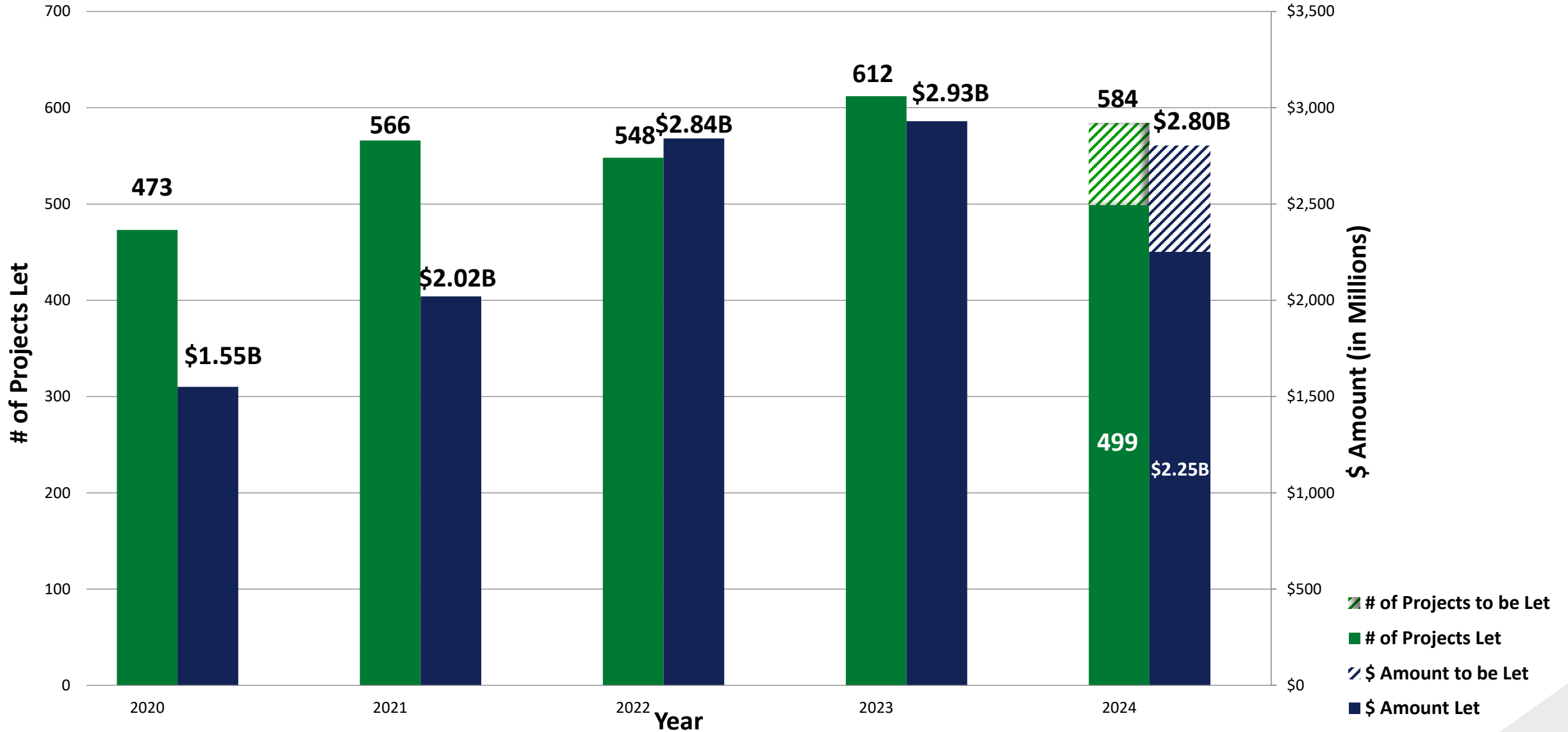


# PROGRAM OUTLOOK



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# PROJECT LETTING TRENDS



# PROGRAM DISTRIBUTION

	Cost Based Percentage				
	2020	2021	2022	2023	2024*
Highway	61%	71%	73%	61%	55%
Bridge	24%	17%	19%	26%	33%
Other	15%	12%	8%	13%	12%

\*2024 Projected

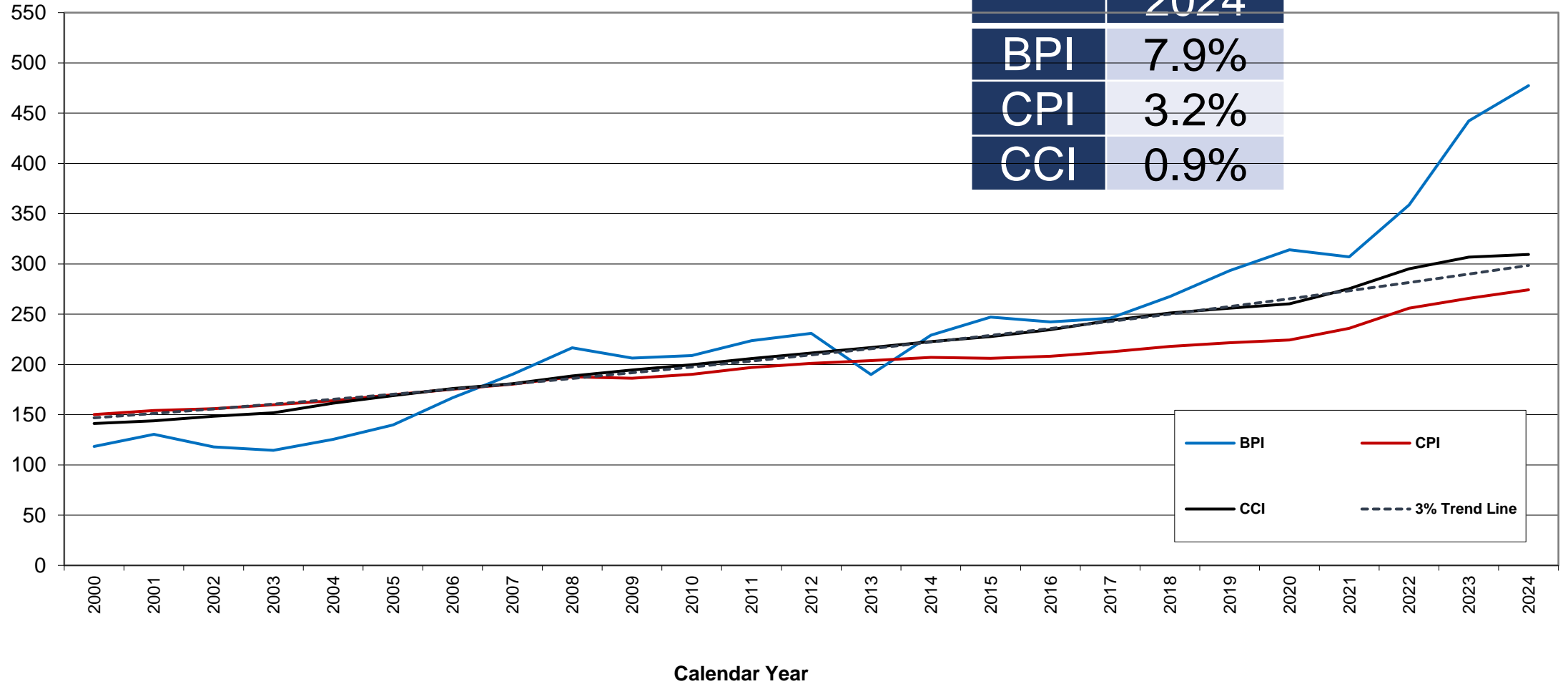


# INFLATION

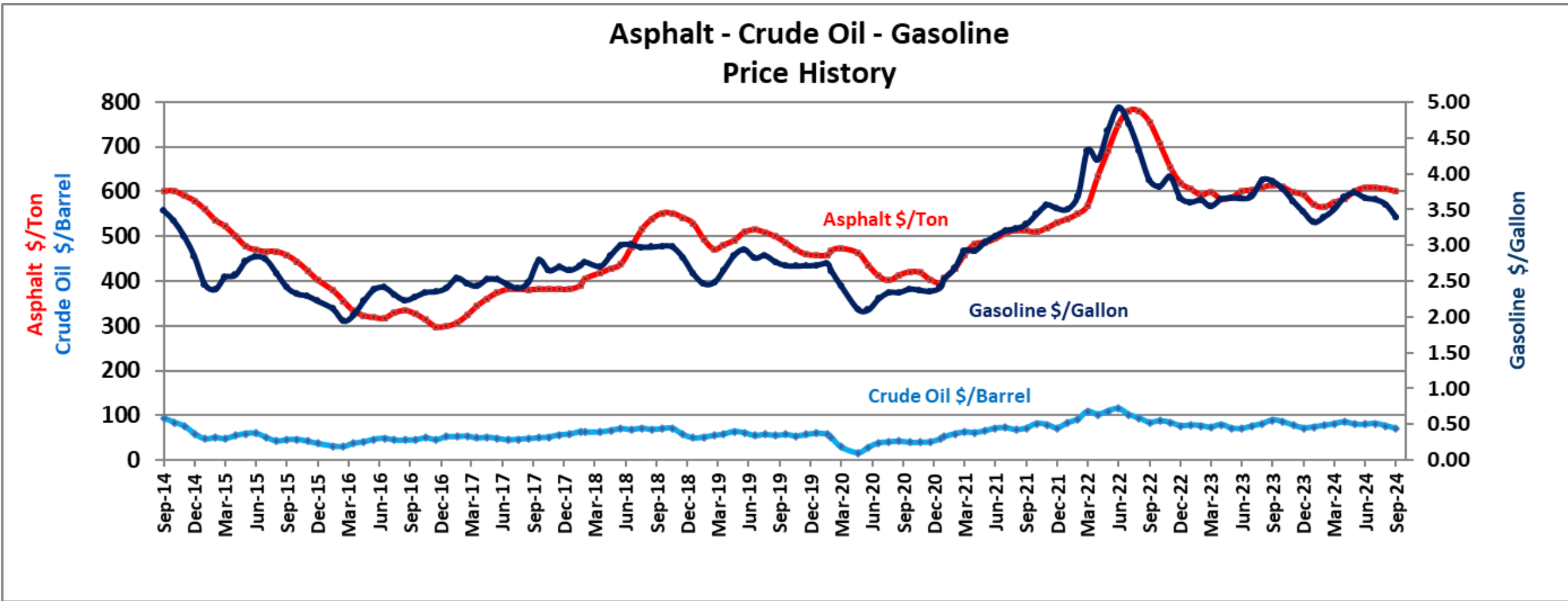
Inflation Indices - 2000 to 2024  
thru 9/30/24

	<b>2024</b>
<b>BPI</b>	<b>7.9%</b>
<b>CPI</b>	<b>3.2%</b>
<b>CCI</b>	<b>0.9%</b>

Average Increase Over 1987 Base



# ASPHALT - CRUDE OIL - GASOLINE PRICE HISTORY



# WHAT WE'VE DONE

CY 2024				
Activity	Seal Coat	Crack Seal	Fog Seal	Seal Coat Aggregates
	Miles	Lane Miles	Miles	Tons
Total	3,565	8,685	299	548,236

CY 2025 Estimates		
Activity	Seal Coat	Crack Seal
	Miles	Lane Miles
Total	5,172	10,973



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[PennsylvaniaDOT](https://www.youtube.com/PennsylvaniaDOT)



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# FINAL SAFETY MESSAGE





# MOVING FORWARD INTO 2025

**We look forward to working with PAAMA and its members in 2025 and beyond !**



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Department of Transportation**

