



**Pennsylvania Asphalt  
Pavement Association**  
Pennsylvania Rides on US.



**JULY 26, 2023**

**MIKE REBERT, P.E.  
DEPUTY SECRETARY FOR HIGHWAY ADMINISTRATION**

# FOCUS AREAS: ABOUT PEOPLE

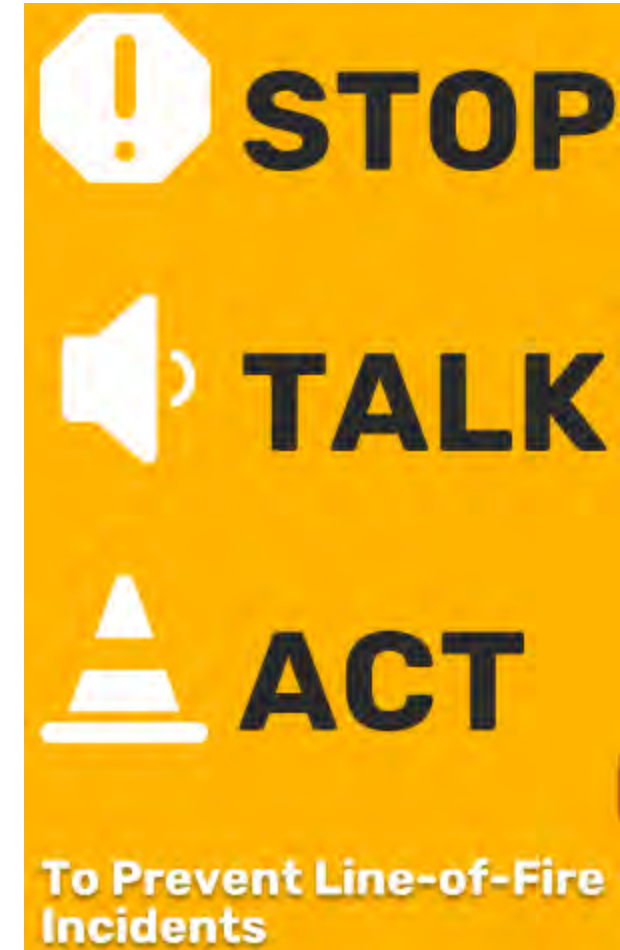
- Safety
- Program Delivery
  - Relationships
  - Asset Management
  - Pavement Updates
  - Innovation
  - Program
- Funding
- 2023 Program Outlook



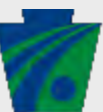
# SAFETY:

- WORKFORCE
- WORK ZONES
- FAMILIES
- PUBLIC

# INDUSTRY-WIDE SAFETY STAND-DOWN



#StandDown2SaveLives



# MENTAL HEALTH STATISTICS

1 in 5 U.S. adults experience mental illness

Approximately 1 suicide every 11 minutes

Stigma prevents 40% of people with anxiety or depression from seeking help

Construction suicides are 5x greater than all fatal construction injuries (2018)

The suicide rate among men in construction is about 4x higher than the general population

From 2000-2016, the working age adult suicide rate increased 34%

If you or someone you know is in crisis, please contact the

**National Suicide Prevention Lifeline**



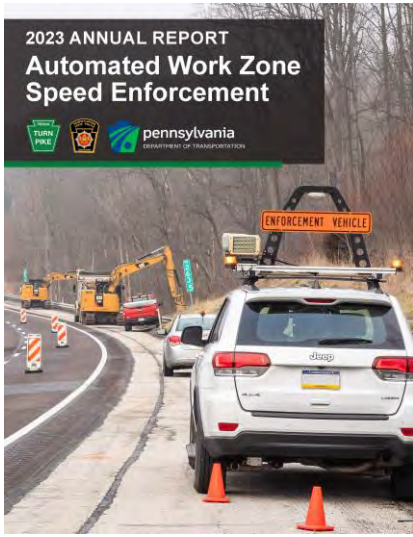
- Call 1-800-273-TALK (8255)
- Use the online Lifeline Crisis Chat
- [www.suicidepreventionlifeline.org](http://www.suicidepreventionlifeline.org)

**Text HOME  
to 741741**

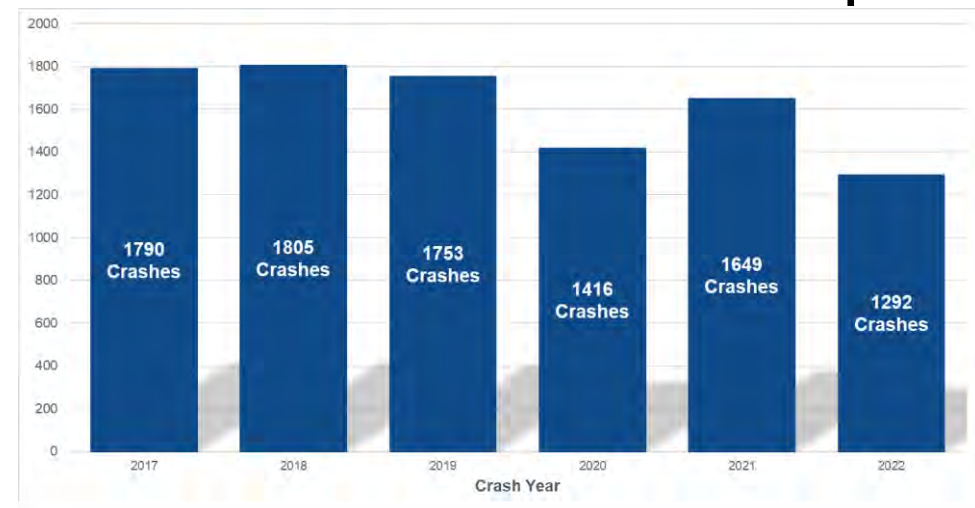
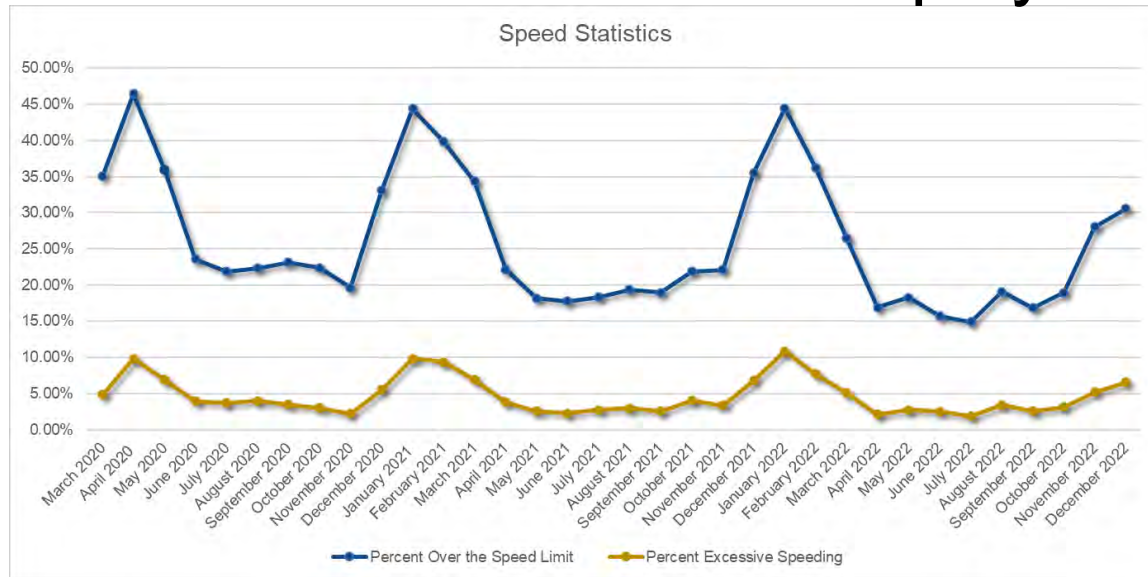
for free, 24/7 crisis  
support in the US.



# AUTOMATED WORK ZONE SPEED ENFORCEMENT



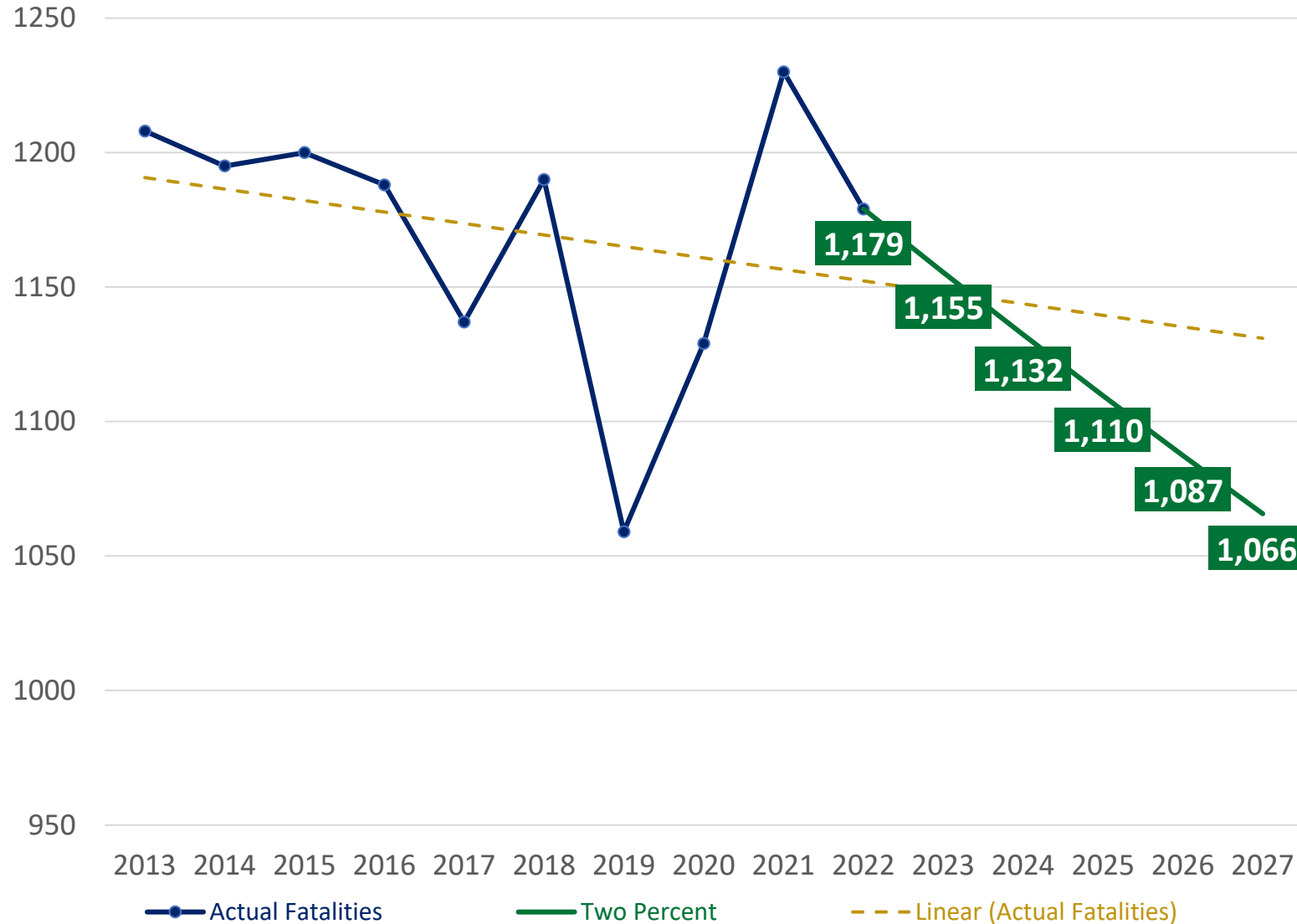
- Annual report published April 2023
- Covers from start of program to end of 2022
- Program is fulfilling its stated goals
- Program is focused on **SAFETY**, not revenue
  - Operated at a loss through end of 2022
- 69% of deployments have been to short-term patterns



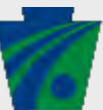
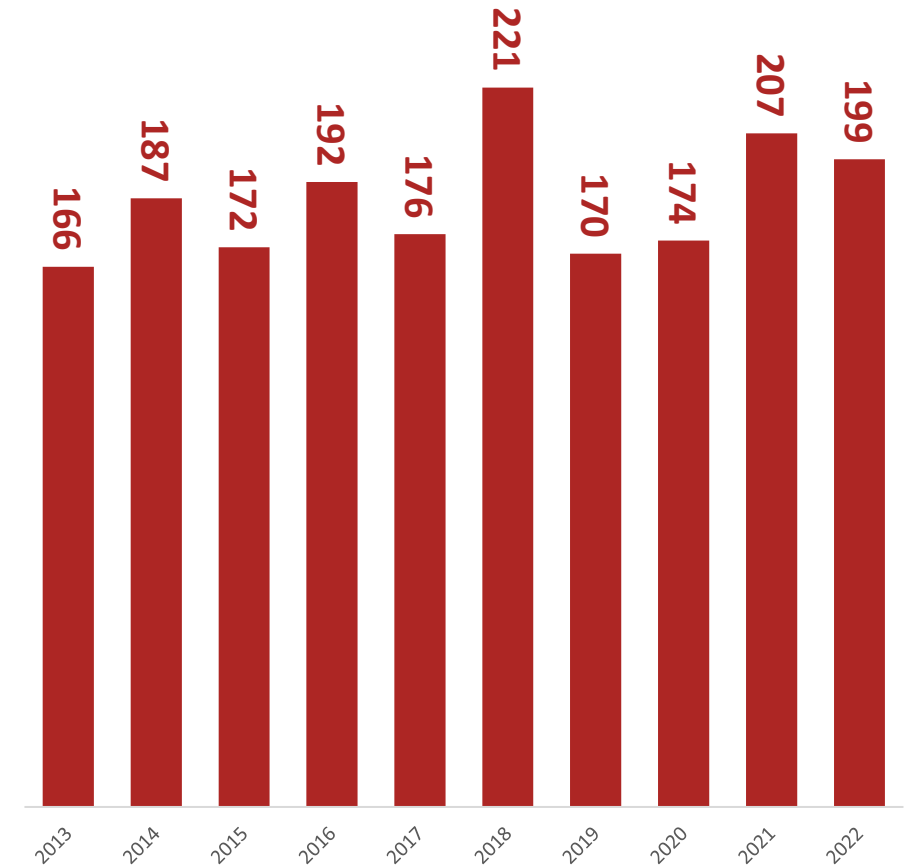
All Work Zone Crashes – 2017-2022



# FATALITIES



## Non-Motorized Fatalities



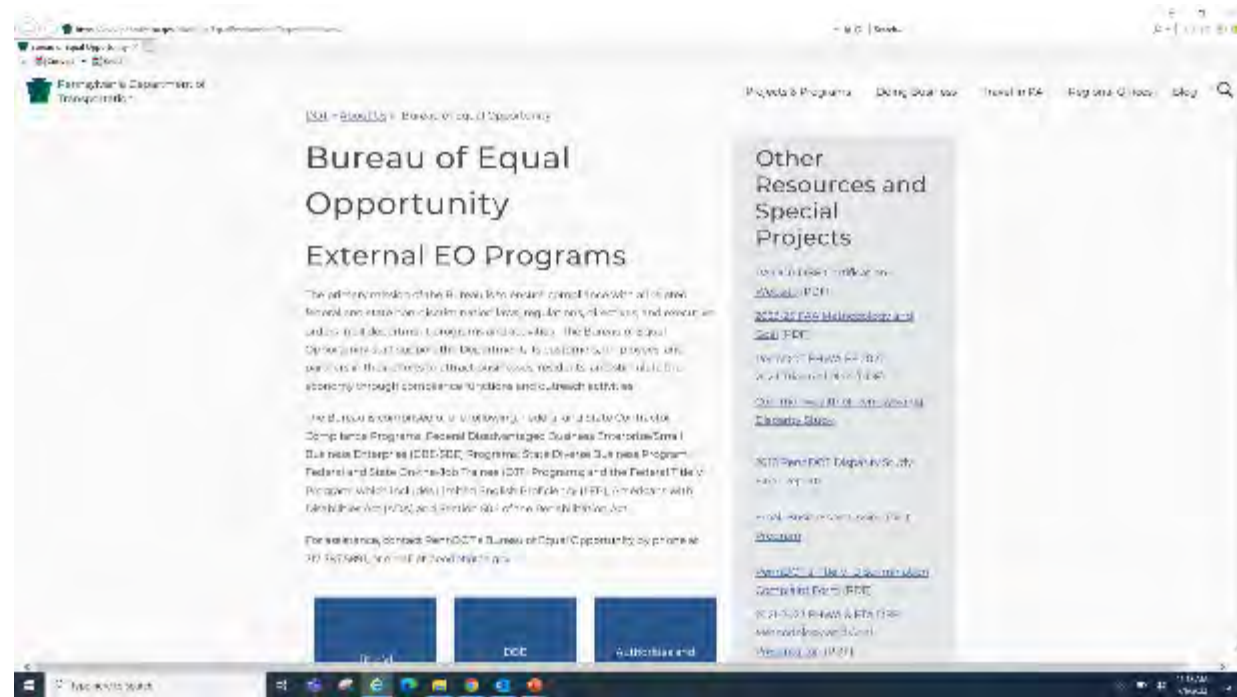
# PROJECT DELIVERY:

- RELATIONSHIPS
- ASSET MANAGEMENT
- QUALITY
- GREEN INITIATIVES

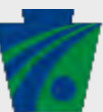


# DIVERSITY, EQUITY AND INCLUSION

- ✓ Mentor-Protégé Program
- ✓ Major Bridge P3 DBE Program
- ✓ On the Job Training Program



<https://www.penndot.gov/about-us/EqualEmployment/Pages/default.aspx>



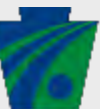
# ASSET MANAGEMENT

## 2022 Transportation Asset Management Plan

- Draft submitted to FHWA in May 2022
- BIL compliant version submitted in December of 2022
- FHWA final approval March 31, 2023
- Available to view at:

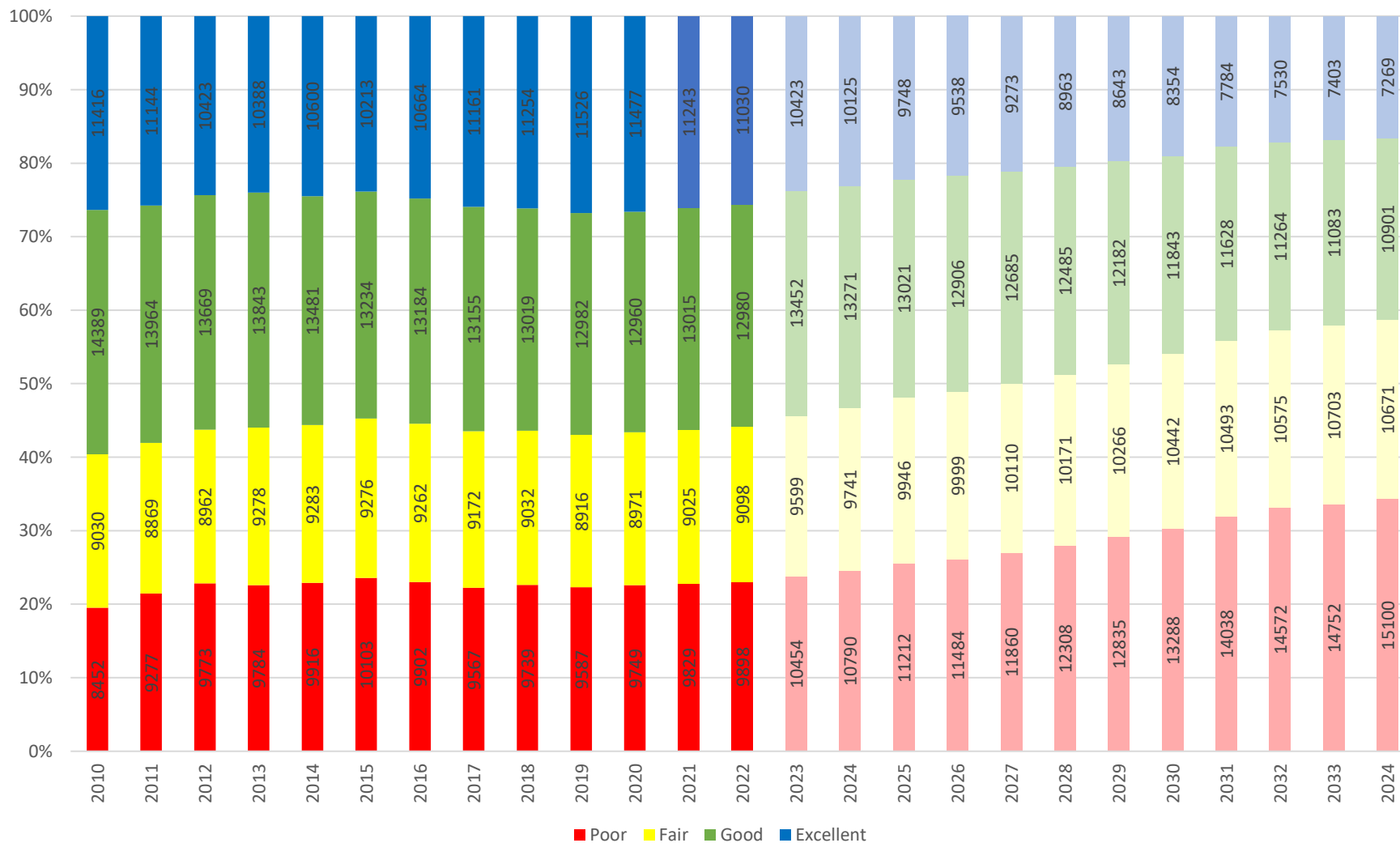
[Asset Management \(pa.gov\)](https://www.pa.gov/asset-management)

(google “PennDOT Tamp”)



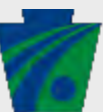
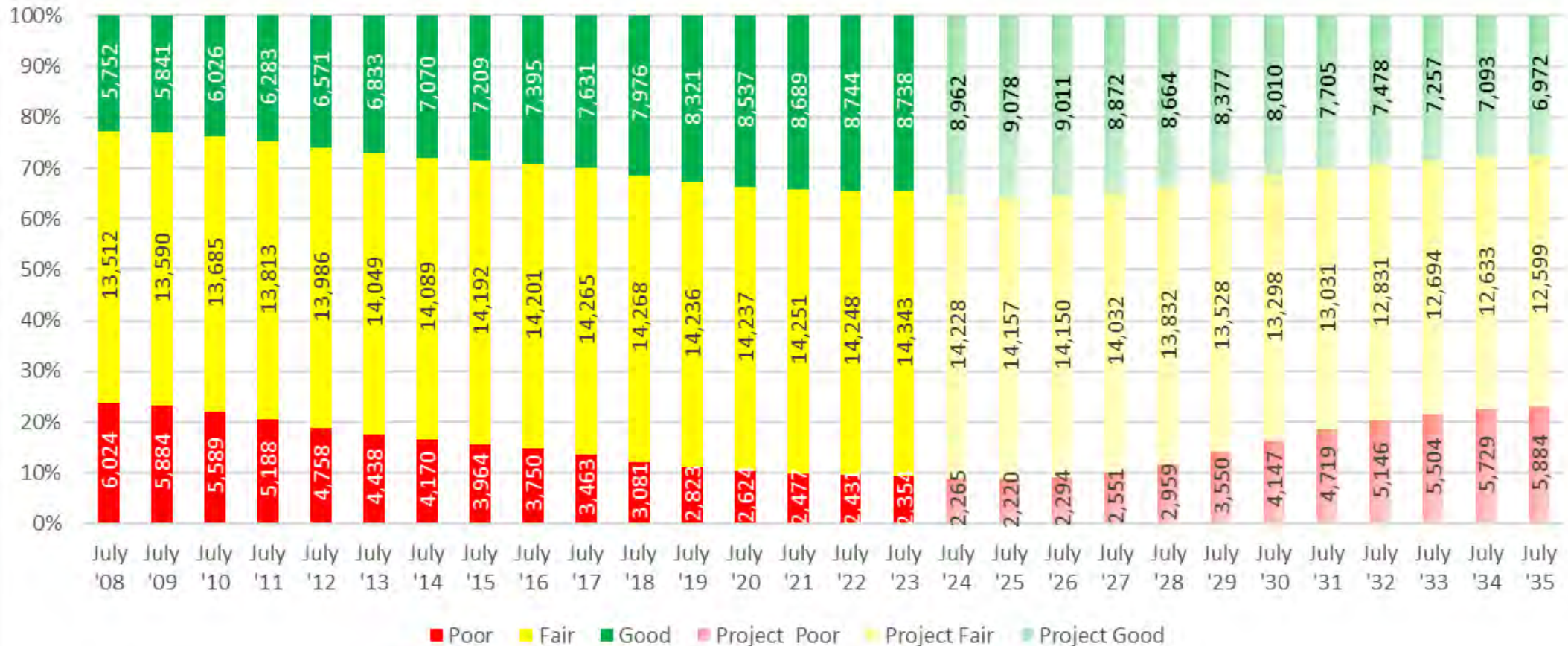
# ROADWAYS - STATE OF GOOD REPAIR

Statewide - Pavement Condition 2010-2022 Actual  
 2023-2034 Projected  
 (Miles of Pavement)



# BRIDGES - STATE OF GOOD REPAIR

Statewide - Bridge Condition 2008 - 2023 Actual  
2024 - 2035 Projected  
(Number of Bridges)



# INDUSTRY INTERACTION

## Quarterly Industry Forum

- Meeting with Deputy Secretary and Industry Association Executives

## Quality Improvement Committees

- Asphalt Paving Quality Improvement Committee (APQIC)
- Concrete Paving Quality Improvement Committee (CPQIC)
- Aggregate Quality Improvement Committee (AQIC)
- Concrete Quality Improvement Committee (CQIC)
- Pennsylvania Association of Asphalt Material Applicators Quality Improvement Committee (PAAMA-QIC)
- Cement Quality Improvement Committee (CEMQIC)
- Slag Quality Improvement Committee (SlagQIC)



# ASPHALT PAVING QIC (APOIC)

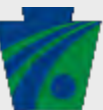
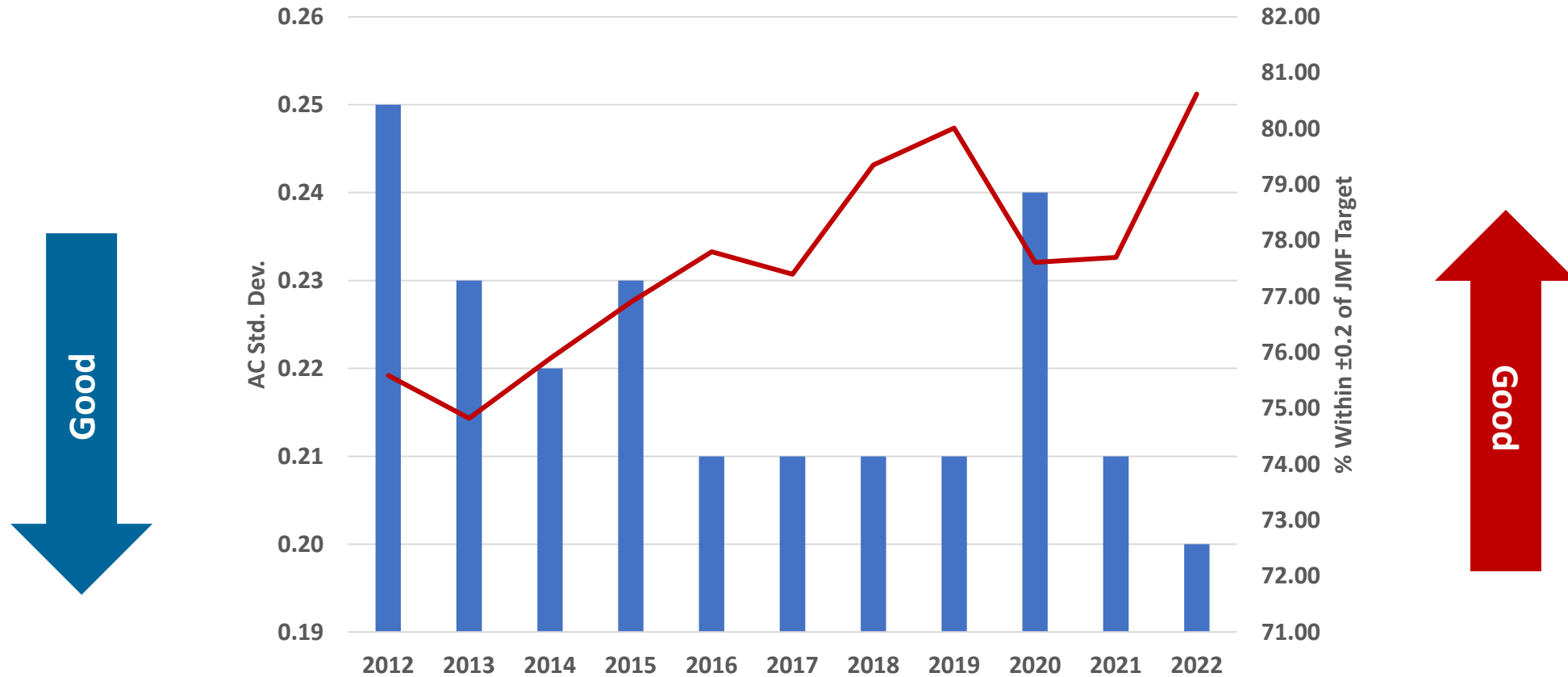
## Activities and Accomplishments

- e-Ticketing 2022 Pilots & Revised Special Provision for 2023
- Implementation of Performance Related Testing into PA's Asphalt Mix Design Approval Process
- Mixture Performance Testing – PSU Research/Data Collection
- Plastics in Asphalt Binder
- Revisions to typical Paving Notch Detail and implementation in RC-20M and RC28M
- Hi-Polymerized Asphalt Binder
- Virtual Asphalt Acceptance Testing (VAAT)
- Long-Life Pavement Life Cycle Cost Analysis Development.
- Post-Consumer Recycled Asphalt Shingles
- SMA with 10% RAP Pilot Projects
- Fiberless SMA Pilots
- Subcommittees



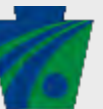
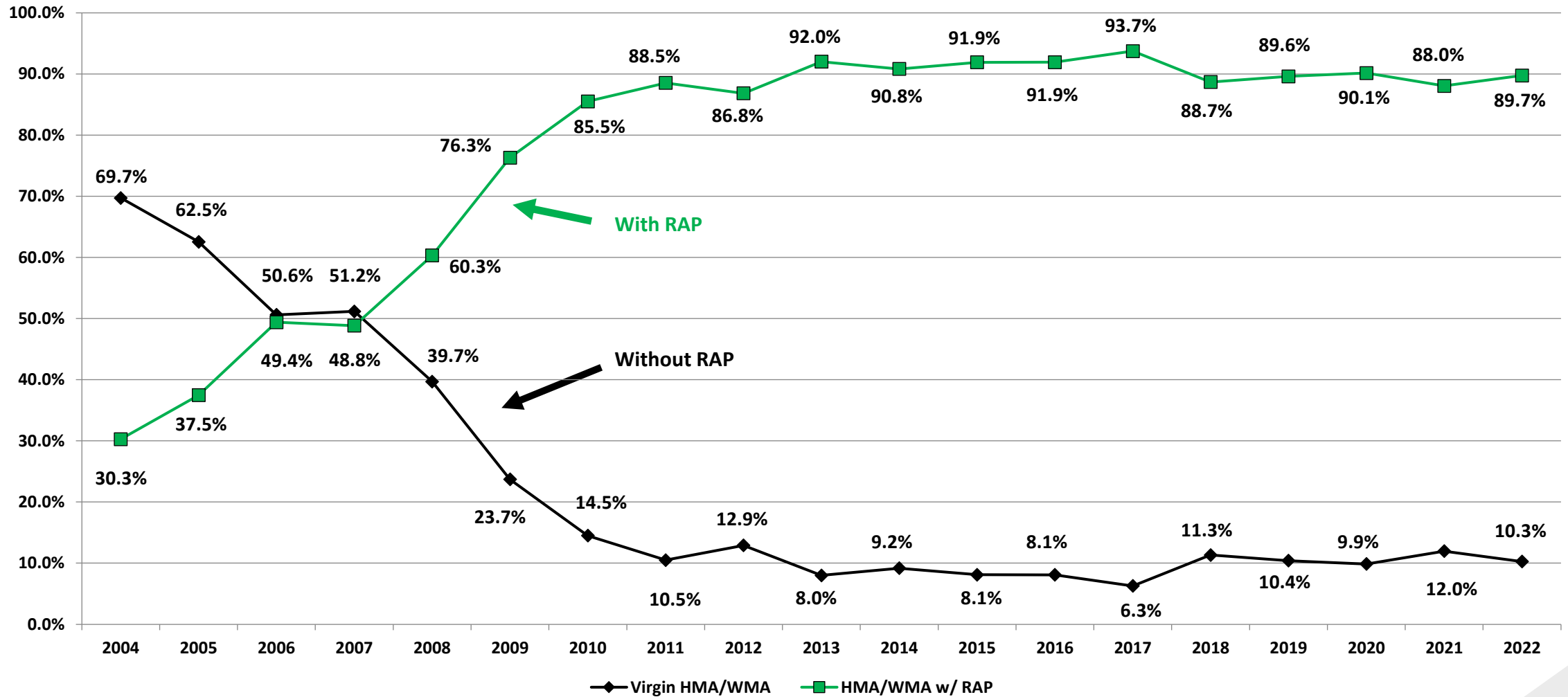
# QUALITY – TRENDS & TARGETS

## 2022 - All 9.5 mm Wearing Courses – Std. Dev. for Asphalt Content



# GREEN INITIATIVES - RAP

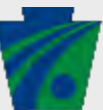
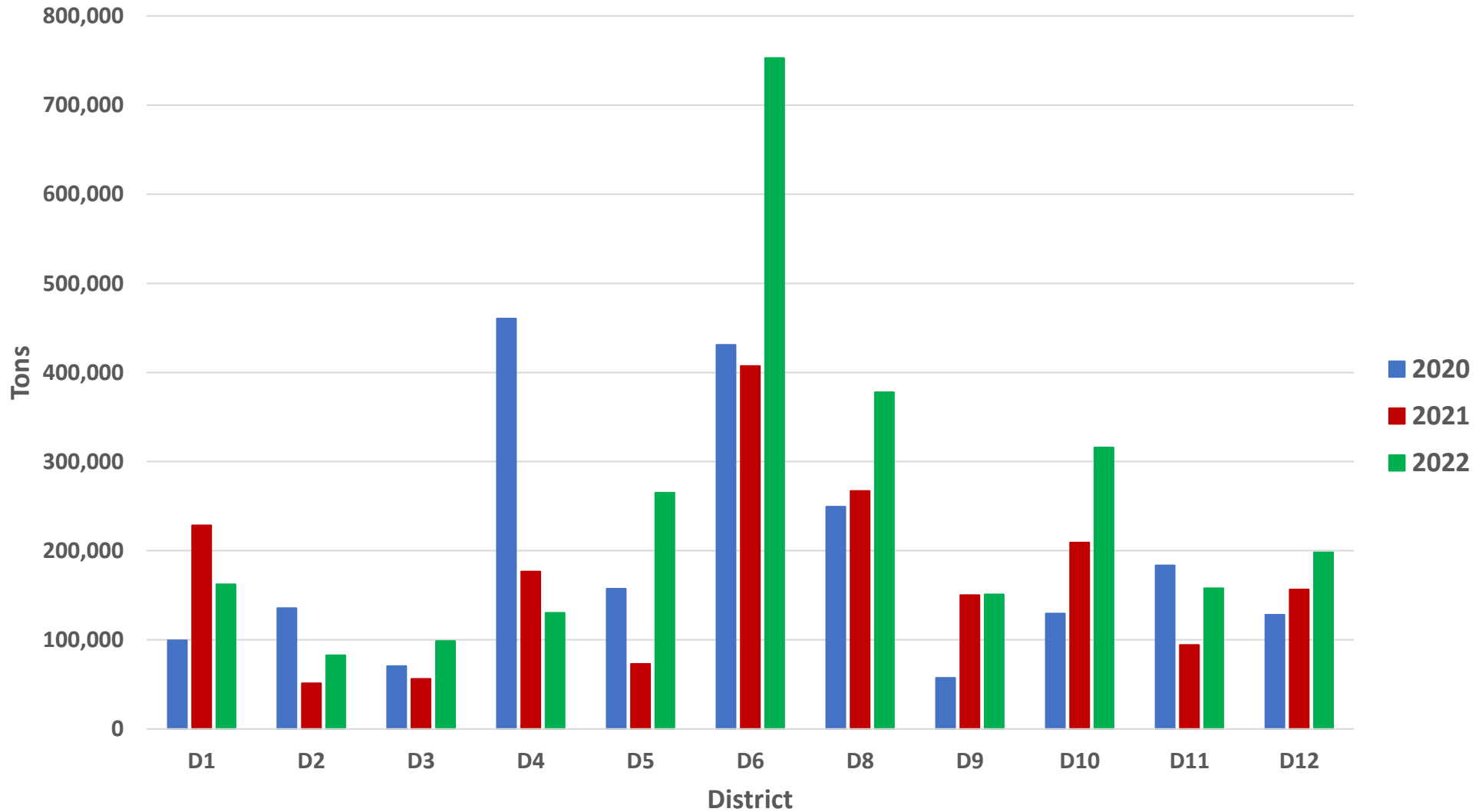
## Reclaimed Asphalt Pavement (RAP) Usage Trend in HMA & WMA





# GREEN INITIATIVES - RAP

Amount of RAP Milled from Pavements



# INNOVATION

# MOBILE APPLICATIONS (APPS)



**MC DOCs**



**CID**



**Sample ID**



**PSA**



**MPT**



**Dept. ePayroll**  
On Hold



**Punchlist**



**CMH Mobile**



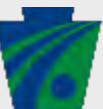
**E-Ticketing**



**Force Account**



**Visual Site Inspection Report**



# DIGITAL DELIVERY DIRECTIVE 2025 (3D2025)



## PennDOT's Vision

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

# Digital Delivery Directive 2025 ROADMAP



## Our Vision

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

## Our Mission

To support the digital transformation of project development within PennDOT developing modeling requirements, processes, and workforce development to enable improved asset information transfer by using 3D data-rich information models

## Goals

**Implement 3D Technology**

**Advance the Use of Accessible Digital Processes and Tools**

**Capture Data-Rich Asset Models**

## Keys to Success

- Manage Pace of Change
- Help People Perceive Progress
- Create Safe Space for Experimentation
- Empower Pilot Project Teams
- Use Construction Partnering

## Strategic Approach

- Assess Stakeholder Needs, Desires and Priorities
- Align Technical Solutions with Stakeholder Input
- Advance Technical Solutions Incrementally

Email: [RA-PDDIGITALDELIVERY@pa.gov](mailto:RA-PDDIGITALDELIVERY@pa.gov)

Webpage: <https://www.penndot.pa.gov/ProjectandPrograms/3D2025/Pages/default.aspx>



**2020**

**Strategic Plan**

- Stakeholder Workshops
- Implementation Plan
- Digital Delivery Web Page
- Communication Plan

**2022-23**

**2** EGCL/Roadway Modeling Pilots

Construction Inspection

**2024-25**

**7** Drainage and Utility Modeling Pilots

Priority Assets Digital As-Builts

**2023-24**

**3** Bridge Modeling Pilots

3D Coordination and Design Reviews

**2021-22**

**6** Guiderail Digital As-Builts Pilots

**3** Single Project PDF

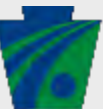
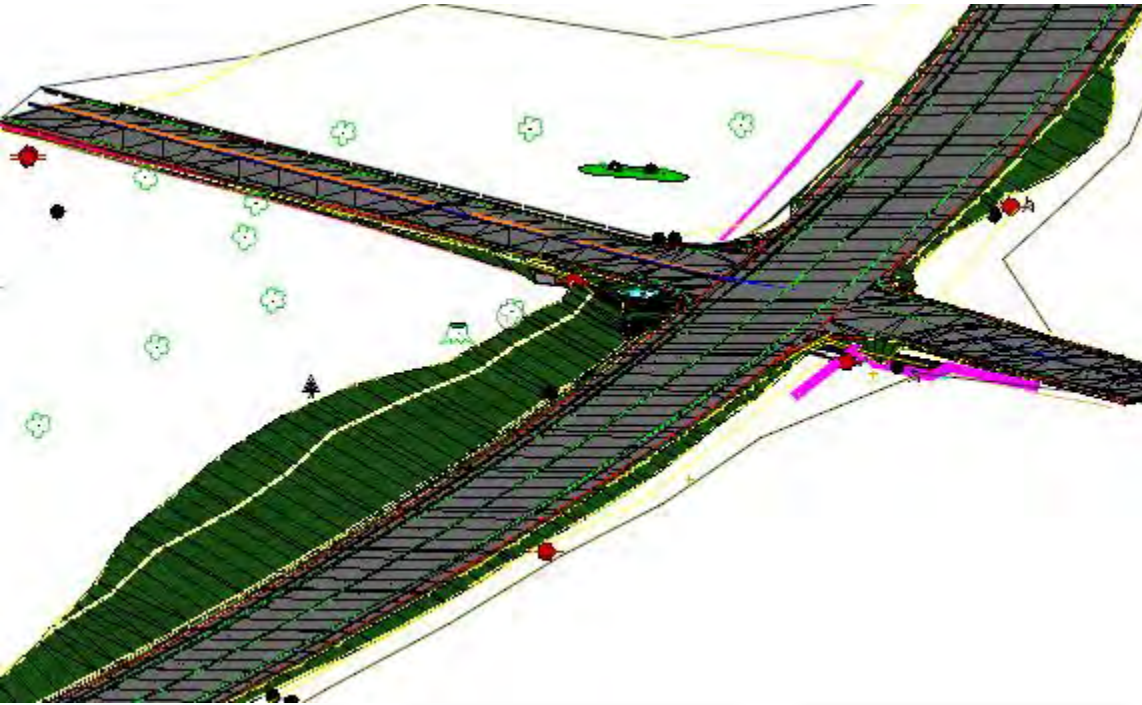
**2025**

**Digital Delivery Implemented**

- Standardized Digital Delivery Process

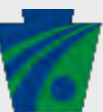
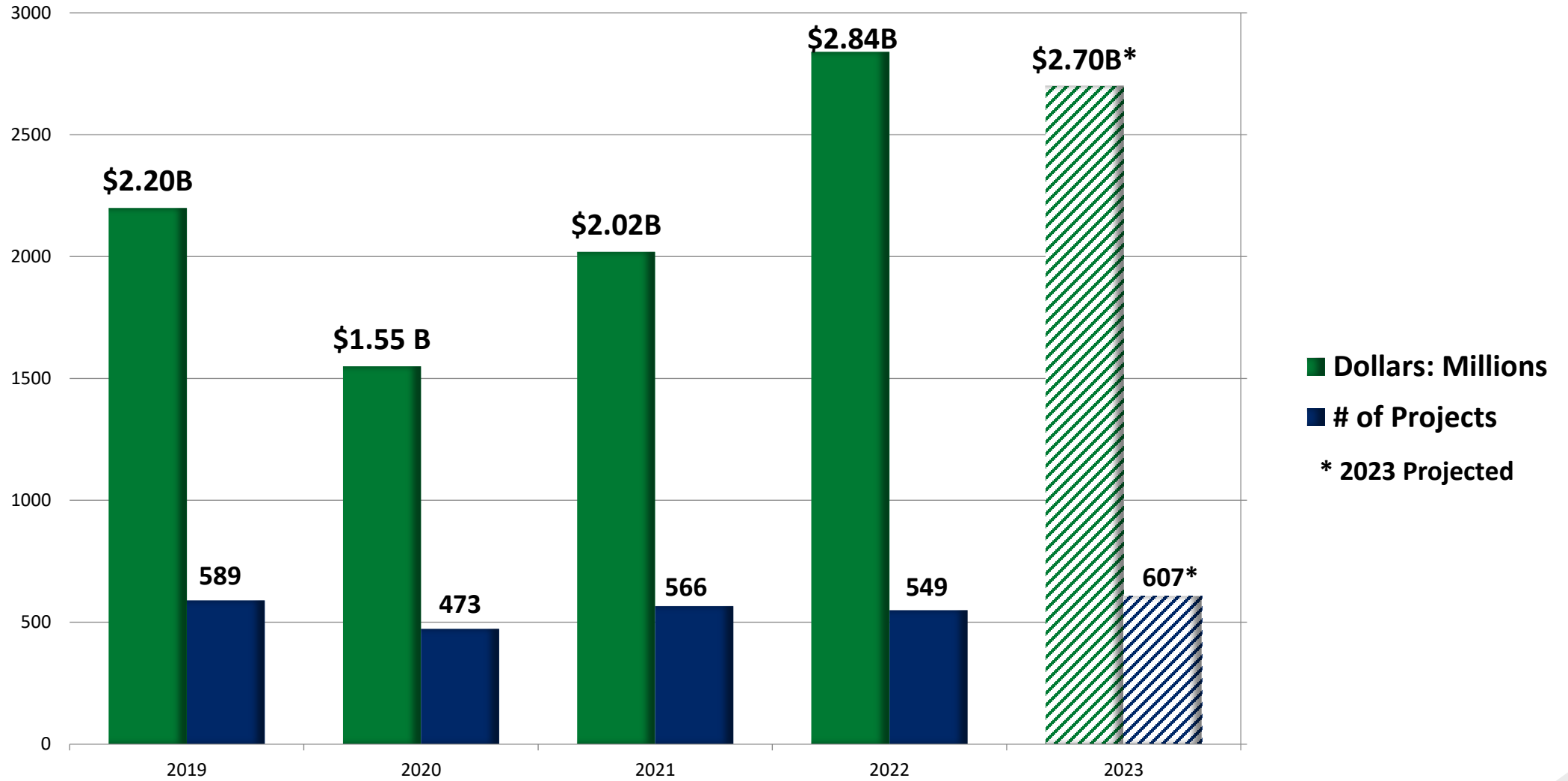
**11** Model as the Legal Document Pilots

# DIGITAL DELIVERY DIRECTIVE 2025 (3D2025)



# PROGRAM

# PROJECT LETTING TRENDS

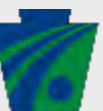




# PROGRAM DISTRIBUTION

	Cost Based Percentage				
	2019	2020	2021	2022	2023*
Highway	70%	61%	71%	73%	51%
Bridge	19%	24%	17%	19%	38%
Other	11%	15%	12%	8%	11%

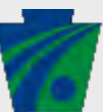
\*2023 Projected



# CONSTRUCTION MATERIAL QUANTITIES

Material	2018	2019	2020	2021	2022	2023*
Asphalt (Tons)	7,182,059	6,667,762	4,240,700	4,252,700	4,581,000	4,829,000
Structural Concrete (CY)	404,844	266,941	217,000	205,500	206,900	205,000
Concrete Paving (SY)	674,394	439,828 CSVT delayed	532,700	785,500	546,200	313,200
Aggregate (Tons)	8,996,689	8,271,575	5,388,700	5,408,300	5,458,200	5,198,000

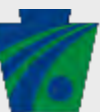
\* Estimated Projections



# FUNDING

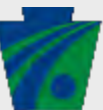
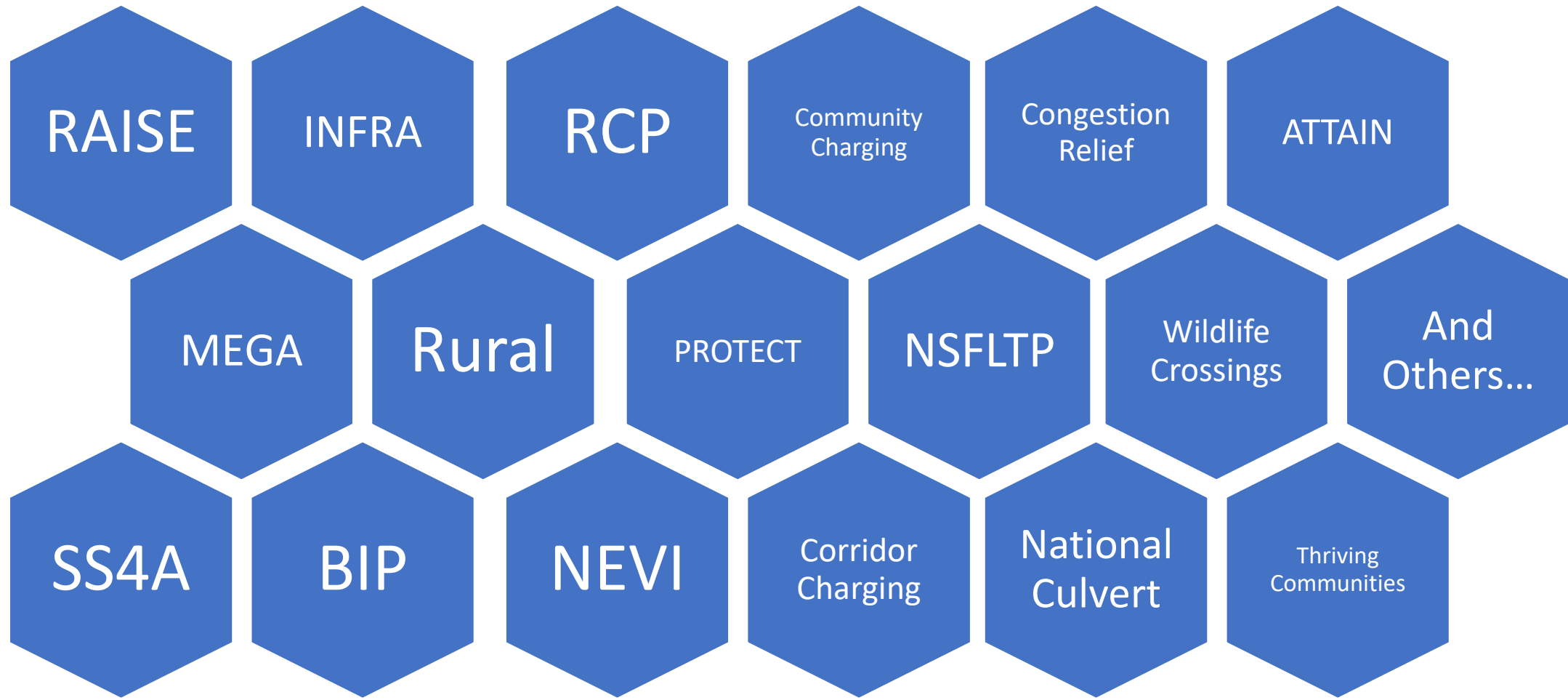
# BI-PARTISAN INFRASTRUCTURE LAW (BIL)

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



# BI-PARTISAN INFRASTRUCTURE LAW (BIL)

Numerous competitive grant programs, each with a different focus.



# PENNDOT PATHWAYS

## Exploration & Analysis







Planning and Environmental Linkages Study

September 2021, Final

Transportation Revenue Options Commission (TROC) Report

July 2021, Final

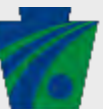
## Potential Solutions

-  Managed Lanes
-  Congestion Pricing
-  Corridor Tolling
-  Mileage-Based User Fees
-  Fees & Taxes
-  Bridge Tolling

The Pennsylvania Public-Private Partnership (P3) law, as amended by Act 84 of 2022, permits optional tolling via Pennsylvania Public-Private Partnership (P3) contracts. Additional state legislation would be required to implement any other tolling options.

## Continued Study & Public Engagement

-  Technical Studies
-  Environmental Studies (NEPA)
-  Stakeholder Engagement
-  Public Involvement
-  Continued Review, Analysis and Information Sharing

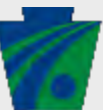


# FUNDING PROJECTS– CASH FLOW

- FY 22-23 Budget Enactment reduced the PSP funding from the Motor License Fund to \$500 million starting in FY 21-22.
- Highway Construction Appropriation is holding \$191 million, that will be held for future IIJA state match.
- Highway Maintenance was increased by \$44 million.
- \$2.7 Billion dollar letting program is sustainable for calendar year 2023. Future years may have to be reduced based on the latest revenue estimates. The future number will continue to be evaluated based on inflationary, winter and other impacts, but is expected to remain at \$2.5 Billion.

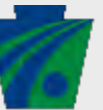


# I-95 BRIDGE COLLAPSE





# I-95 BRIDGE COLLAPSE



# 2023 PROGRAM

# \$2.7 BILLION

# FOLLOW PENNDOT



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[www.DMV.pa.gov](http://www.DMV.pa.gov)



[PennsylvaniaDepartmentofTransportation](https://www.facebook.com/PennsylvaniaDepartmentofTransportation)



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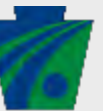
[PennDOTSec](https://twitter.com/PennDOTSec)



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

# MOVING FORWARD IN 2023

**We look forward to continue working with  
PAPA and its members!**



# BE SAFE ON OUR ROADWAYS!



**Be Safe PA.**  
Speed limits protect everyone.  
Slow Down, Save a Life

SPEED LIMIT 35

 [www.PennDOT.gov/Safety](http://www.PennDOT.gov/Safety)  
PA 2019-2020 State Budget





**Be Safe PA.**

Impaired driving crashes  
are 100% preventable.  
Don't Drive Impaired

Best Dad Ever

PA 2019-2020 State Budget



**Be Safe PA.**

In a moment like this,  
seat belts save lives.  
Don't Drive Unbuckled

PA 2019-2020 State Budget





**Be Safe PA.**

Distractions are everywhere.  
Don't Drive Distracted

PA 2019-2020 State Budget

AASHTO TransComm 2020 Award: Marketing/Advertising  
(Print and Electronic Marketing)

