



ACEC/PA
AMERICAN COUNCIL OF ENGINEERING COMPANIES
of Pennsylvania

November 20, 2019
HERSHEY LODGE



Bradley J. Heigel, PE
Chief Engineer
PA Turnpike Commission

JEOPARDY!



JEOPARDY ROUND

Acts

\$

Where are
we?

%

Acts

1937

What is Act 211 – PA Turnpike
Commission Act?

1985

What is Act 61 – Turnpike Authorization,
Extension and Toll Road Conversion Act?

1991

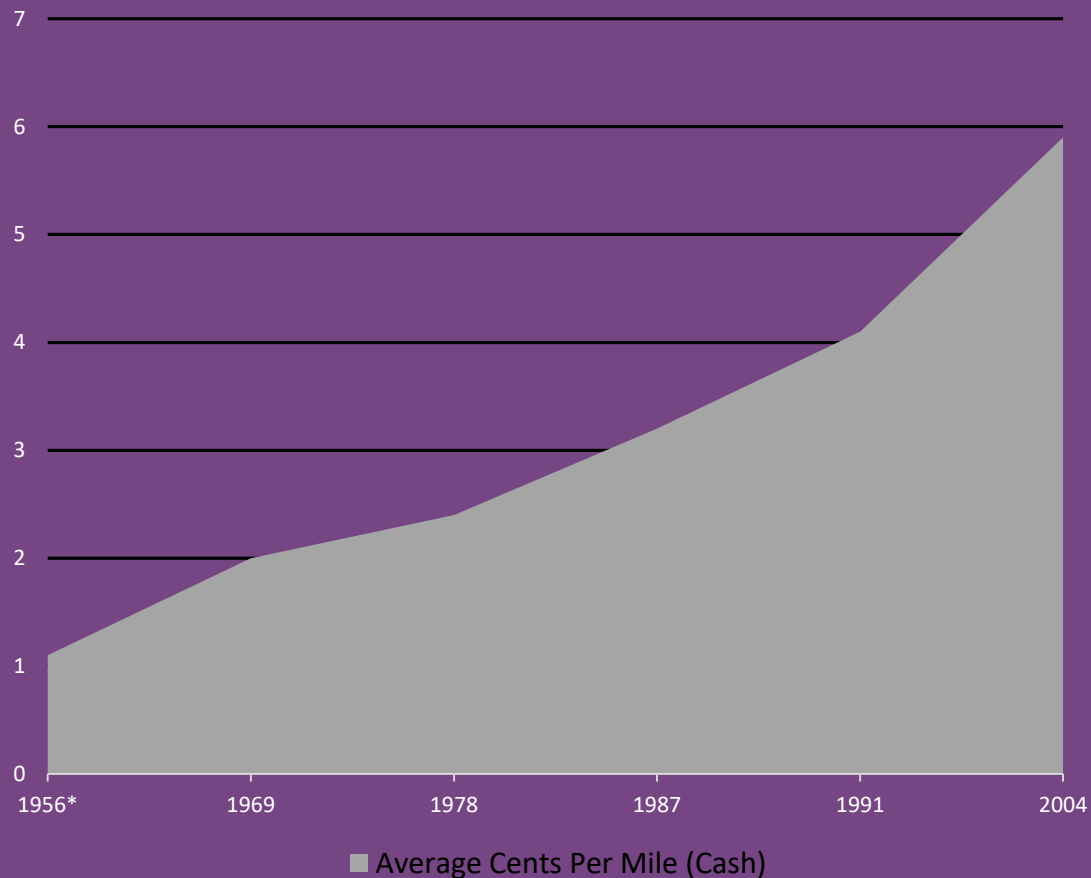
What is Act 26 – Added the Southern Beltway to the list of Act 61 projects and dedicated 14% of 55mil increase in Oil Company Franchise Tax for Act 61 toll road projects?

2007

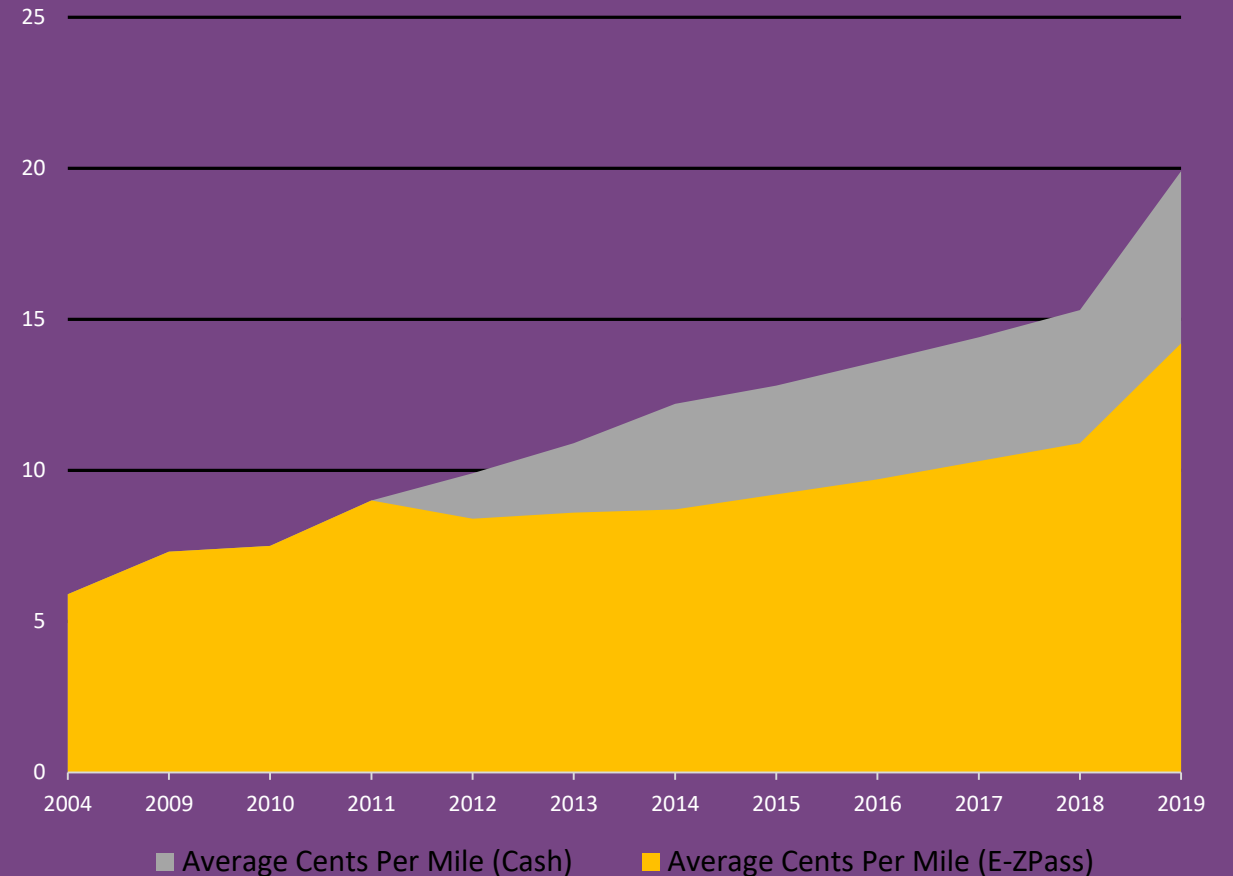
What is Act 44 – Expanded the Commission's mandate from one focused entirely on constructing, operating and improving the PA Turnpike to one that also provides annual funding contributions for broader Commonwealth transportation needs?

Act 44 Toll Increases

Toll Increases Prior to Act 44 – 48 Years



Toll Increases for Act 44 – 10 Years



Act 44 Impact to the Turnpike & Customers

Since Act 44 of 2007...

Debt
(\$6B related to Act 44 Payments)



Toll Rates
(Almost double)



Bond Rating
(Downgraded by three rating agencies)



Capital Plan -13%
(\$1 billion over 10 years cut from plan)



2013

What is Act 89 – Altered the Commission's funding obligations to PennDOT; payments remain at \$450M through FY22 and then lower to \$50M cash beginning in FY23 through 2057 and the funding is solely dedicated to mass transit and multi-modal needs?

2018

What is Act 86 – Automated Work Zone Speed Enforcement in active work zones ?

Program Structure - Program Entities

Public Agencies

Interagency

Pennsylvania Department of Transportation (PennDOT)

- ✓ Scheduling and monitoring (State Highways)
- ✓ Fiscal processes
- ✓ Auditing
- ✓ Standards development

Pennsylvania Turnpike Commission (PTC)

- ✓ Scheduling and monitoring (Commission Highways)
- ✓ Auditing
- ✓ Standards development

Pennsylvania State Police (PSP)

- ✓ Violation review and affirmation
- ✓ Field speed and quality control testing

Contracted Services

Program Administrator (Consultant)

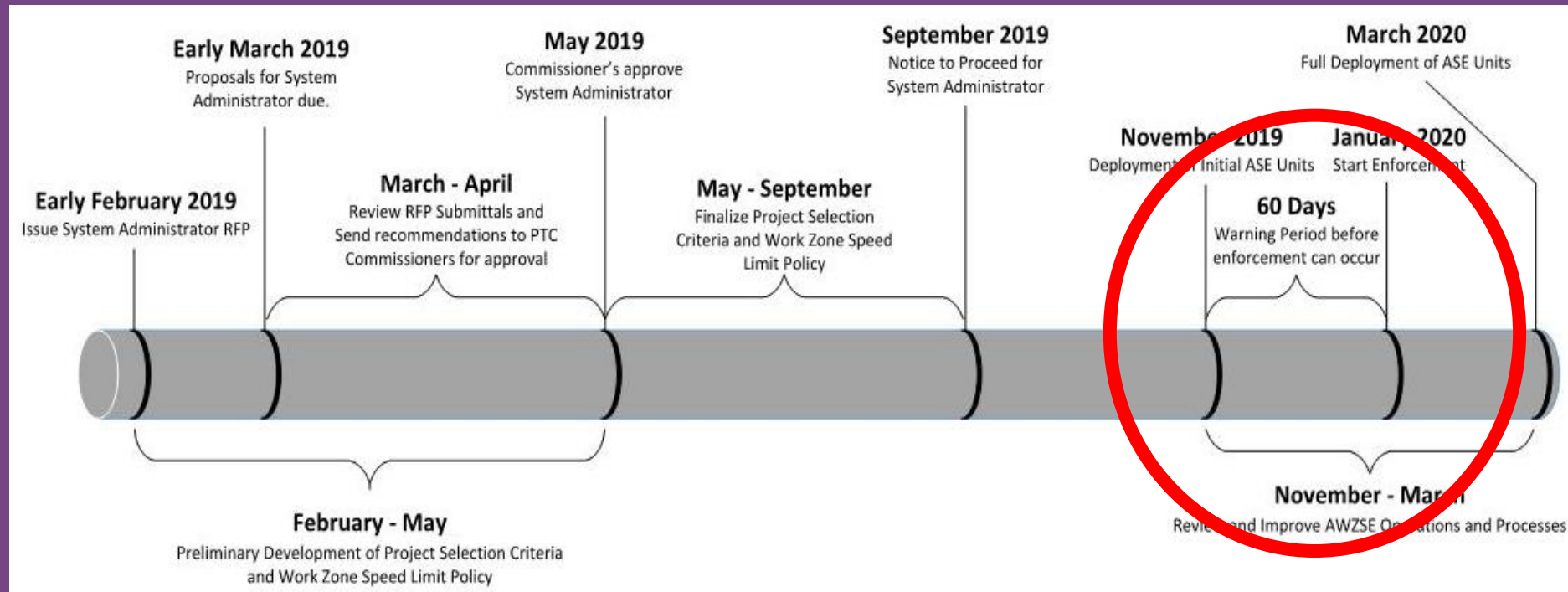
Assists both the Department and the Commission in the development, sustainability, and administration of the program.



System Administrator (Vendor)

Responsible to provide AWZSE equipment, data collection services, and violation appeals processing.





\$

\$1,492,933,550.41

What is the current Professional Services
Contract Value?

\$612,161,726.70

What is the current Professional Service
Contract Value balance? (\$524,649,034.68)

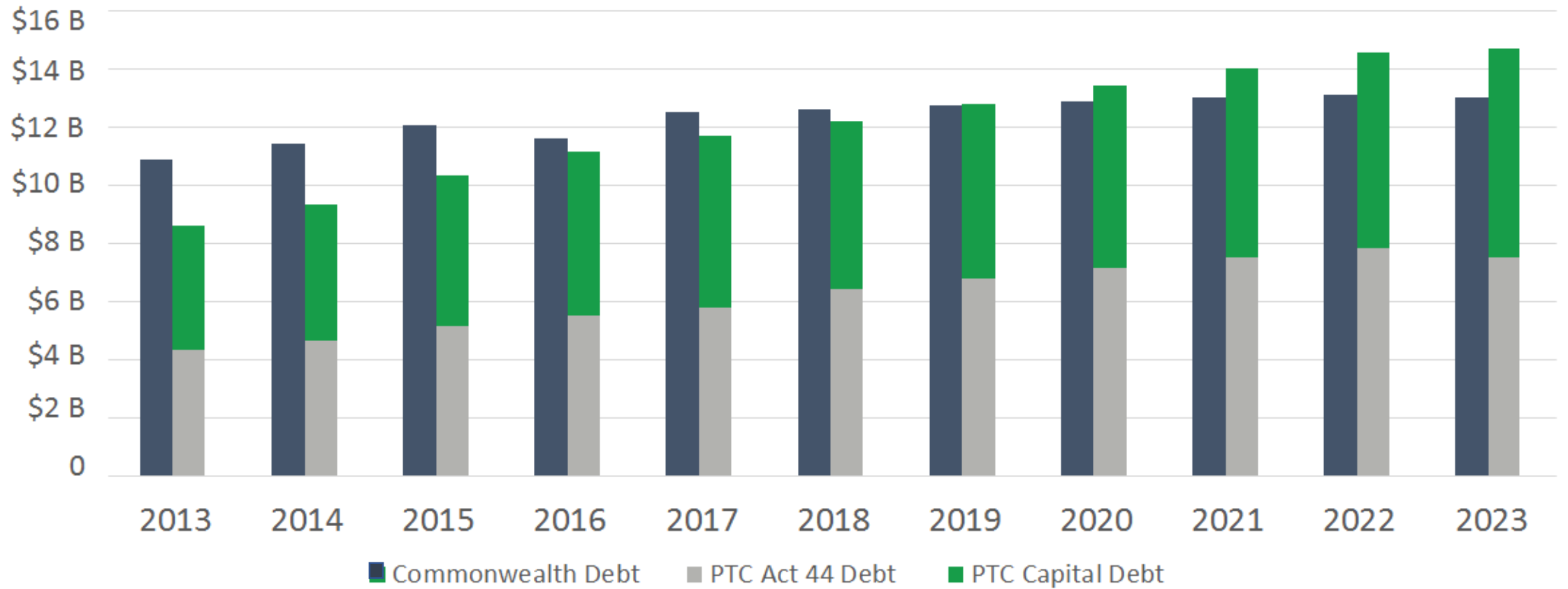
\$14,000,000,000

What is the PA Turnpike's Debt as of
November 1st?

\$450,000,000

What is the Annual Act 44 Payments to
PennDOT?

Debt: Commonwealth vs. PA Turnpike



NEWS AND ANALYSIS INFRASTRUCTURE

US appellate court affirms dismissal of lawsuit against Pennsylvania Turnpike Commission and state, a credit positive

Originally published on 14 August 2019

Moody's

PA Turnpike Tolls Rising Another 6 Percent
Governor Wolf says the current system is not sustainable.

October 15, 2019



TRANSPORTATION, COMMUNITY AND ECONOMIC GROWTH



FINAL REPORT EXECUTIVE SUMMARY

May 2019 • Version 1.1

www.PaMobilityPartnerships.com

MAKING CONNECTIONS: TRANSPORTATION, COMMUNITY AND ECONOMIC GROWTH



FINAL REPORT EXECUTIVE SUMMARY

June 2019

www.PaMobilityPartnerships.com

\$687,334,854

What is the current construction cost
for the Southern Beltway: US 22 to 79?

\$552,207,355

What is the value of the FY20 Capital Plan?

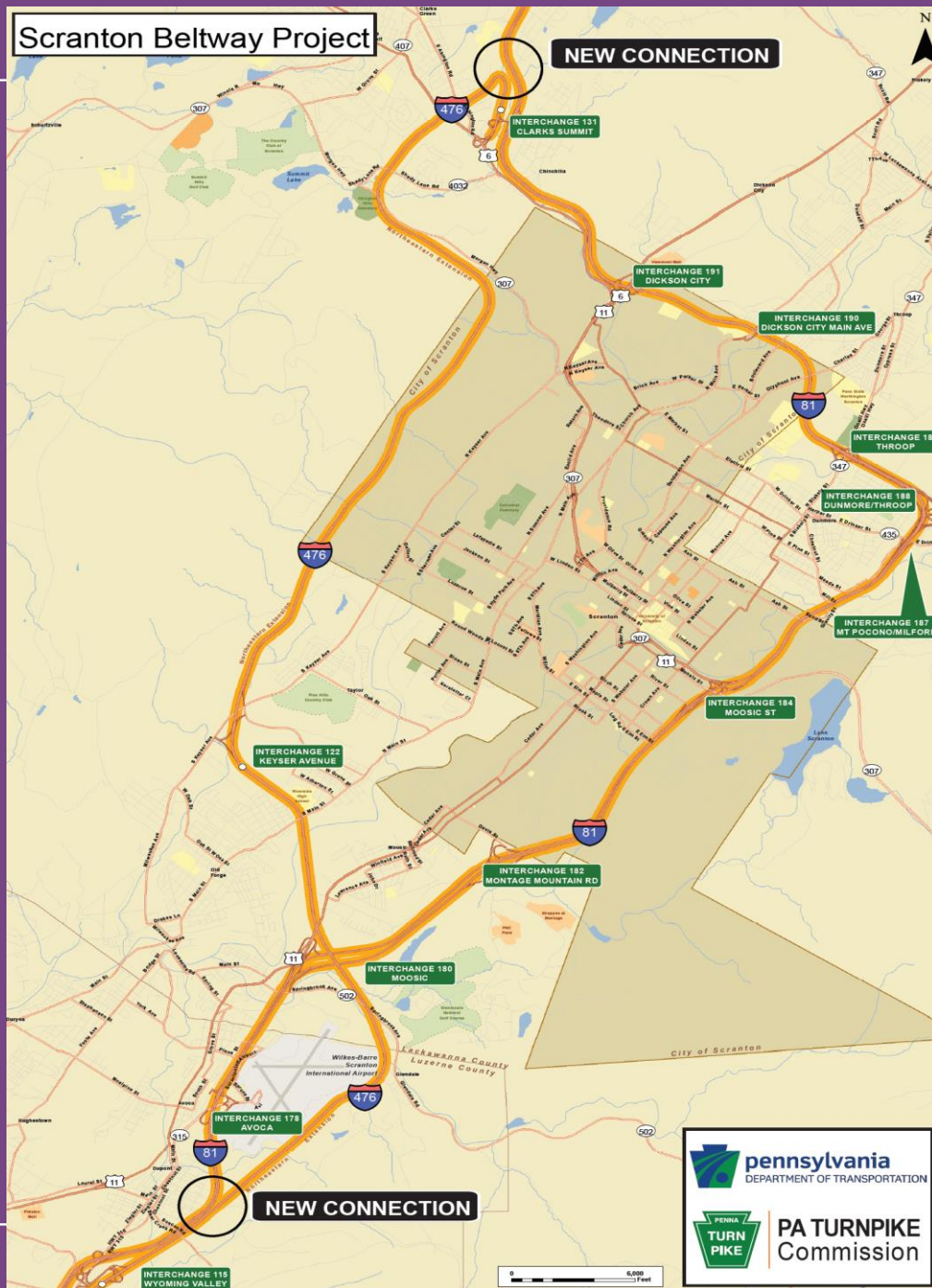
Where
are we?



What is the Clarks Summit IC?

Scranton Beltway Project

NEW CONNECTION



Scranton Beltway Project



What is Lebanon Lancaster IC?



What is East Park Drive?



What is the Southern Beltway?



What is Bedford?



What is the Allegheny Tunnel?

This aerial map displays a watershed area with several key features and labels:

- Watershed Boundary:** A large, irregular brown-shaded area representing the watershed boundary.
- Sub-watershed:** A yellow-shaded area within the main watershed, likely representing a specific sub-watershed or a particular land use zone.
- Streams and Rivers:**
 - Delaware River:** Labeled on the left side of the map.
 - Three Lick Run:** Labeled at the bottom right.
 - Other streams:** Various smaller streams are visible, some labeled with names like "Blues Rd Ln", "Pawlick Rd", and "Deer Run".
- Roads:** Several roads are marked, including "Hickory Hollow", "Pawlick Rd", "Blues Rd Ln", "Deer Run", and "Three Lick Run".
- Topography:** The map shows a mix of green (forested) and brown (developed or cleared) areas, indicating the land cover within the watershed.
- Infrastructure:** A dashed black line runs diagonally across the watershed, possibly indicating a boundary or a specific infrastructure feature.

%

2%

What is the actuals/budget for the FY19
Capital Plan?

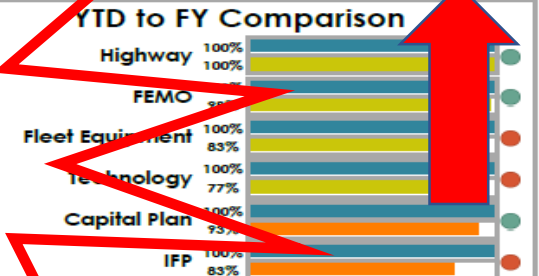
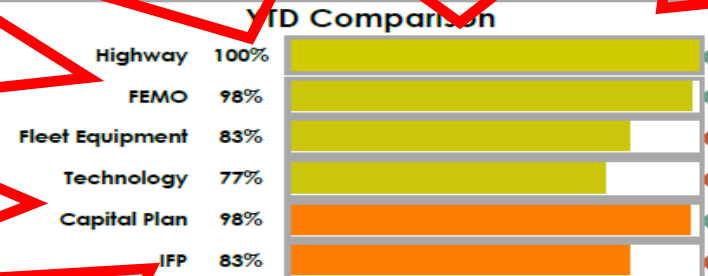


Pennsylvania Turnpike Commission Capital Expenditures Dashboard

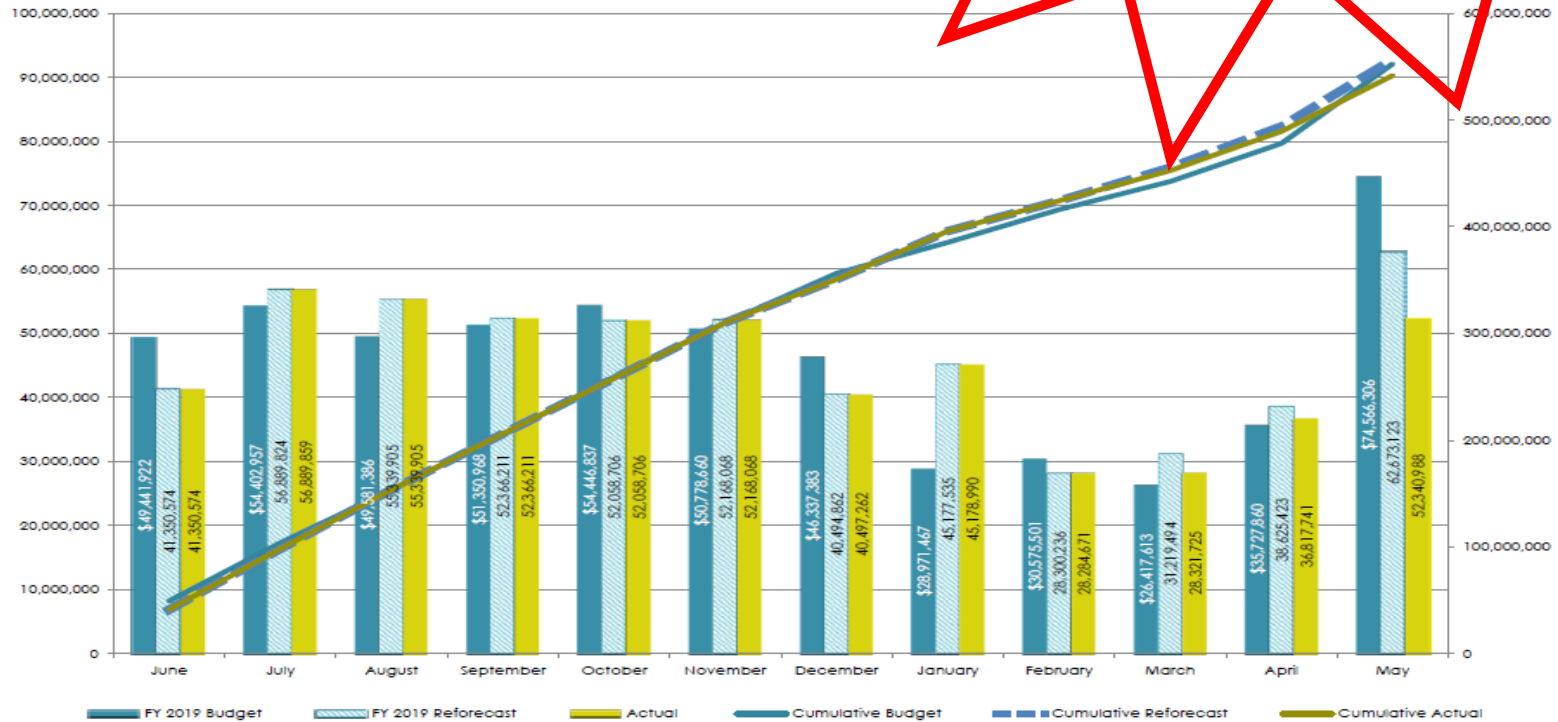
May 31, 2019

Budget & Expenditure

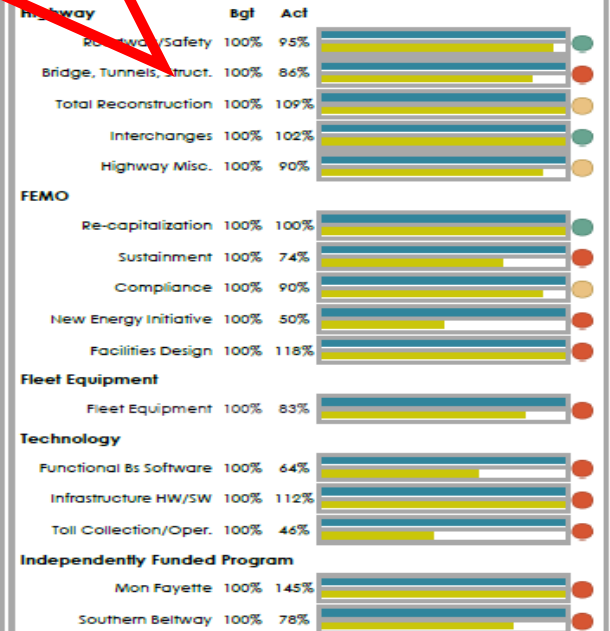
CP Total Budget	\$552,598,859	IFP Total Budget	\$269,804,781
CP YTD Budget	\$552,598,859	IFP YTD Budget	\$269,804,781
CP YTD Actuals	\$541,614,699	IFP YTD Actuals	\$224,033,612
CP YTD Difference	\$10,984,160	IFP YTD Difference	\$45,953,169



Capital Plan



Program Categories



Variance Legend

- < ±7%
- >= ±7% to < ±10%
- >= ±10%



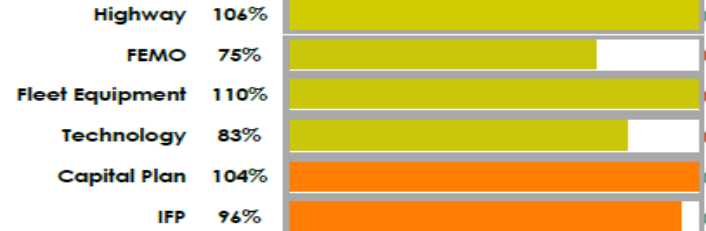
Capital Expenditures Dashboard

October 31, 2019

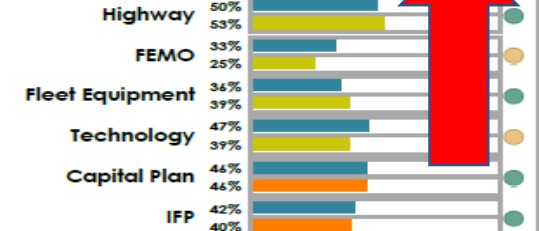
Budget & Expenditure

CP Total Budget	\$552,207,355	IFP Total Budget	\$347,220,800
CP YTD Budget	\$269,315,663	IFP YTD Budget	\$144,675,333
CP YTD Actuals	\$279,691,866	IFP YTD Actuals	\$138,325,741
CP YTD Difference	-\$10,376,202	IFP YTD Difference	\$6,349,593

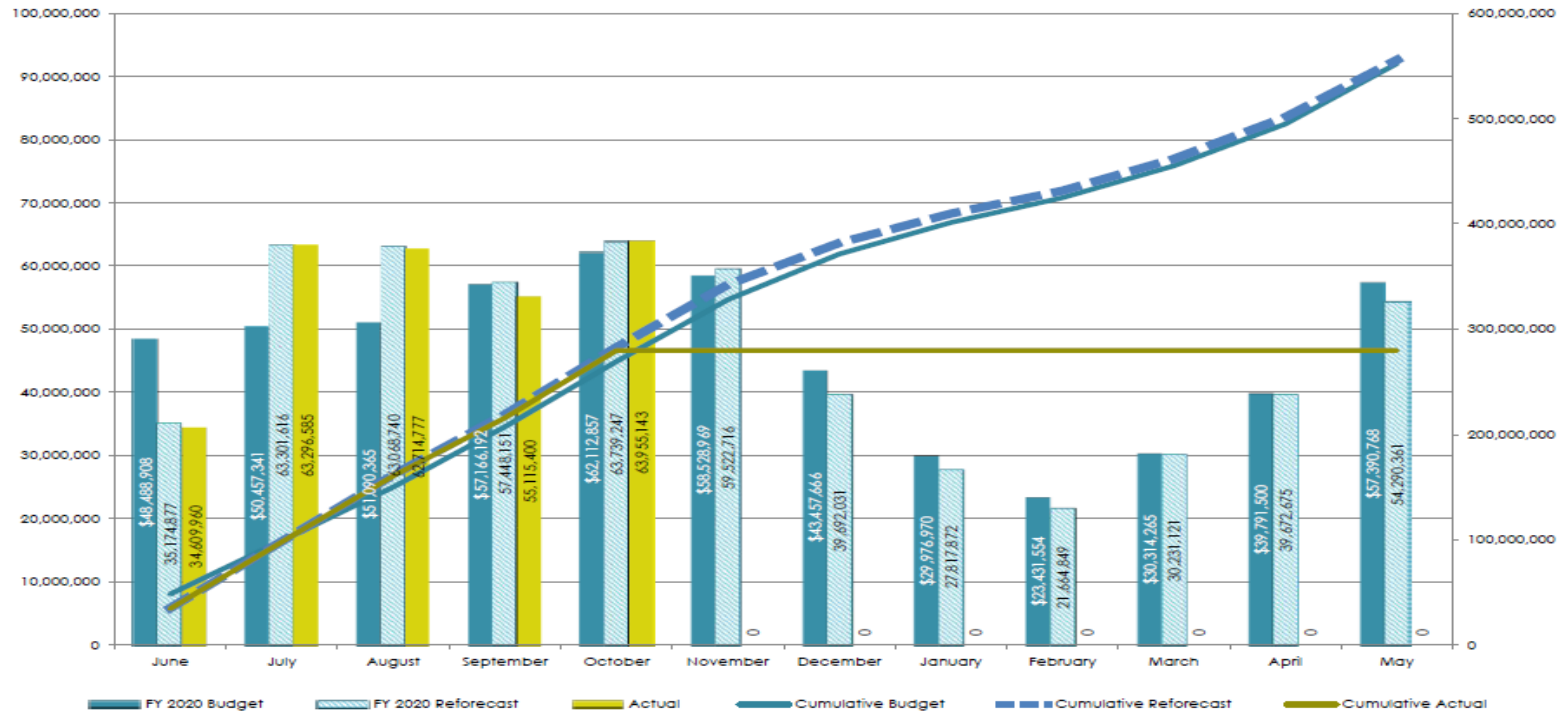
YTD Comparison



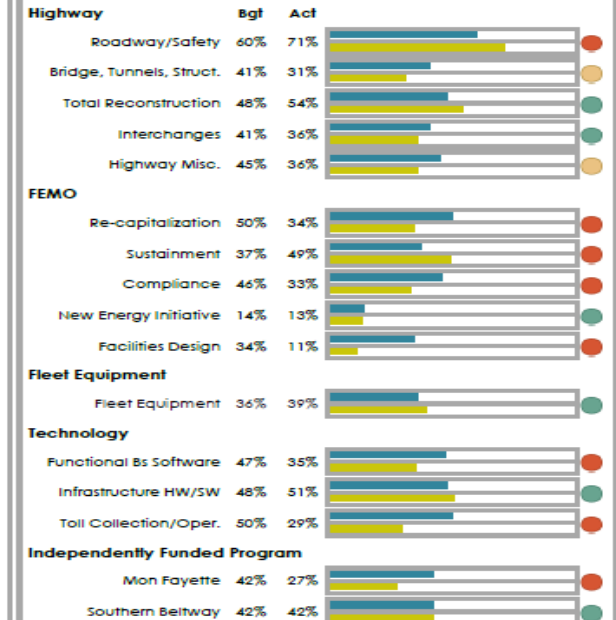
YTD to FY Comparison



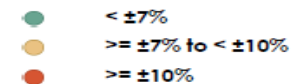
Capital Plan



Program Categories



Variance Legend



3.16%

What is the difference between bid and estimates for CY18 bids?

33%

What is % of the PTC Engineering Dept with
>20 years of service?

48%

What is % of the PTC Engineering Dept with
<10 years of service?

84%

What is E-Z Pass penetration rate system wide?

92.5%

What is the % of the Capital Plan that includes the Highway/Facilities Programs ?

DOUBLE
JEOPARDY
ROUND

Acronyms

Errors &
Omissions

Performance
Report FY19

Don't be
Brian Hart

Acronyms

TET

What is a Technical Evaluation Team?

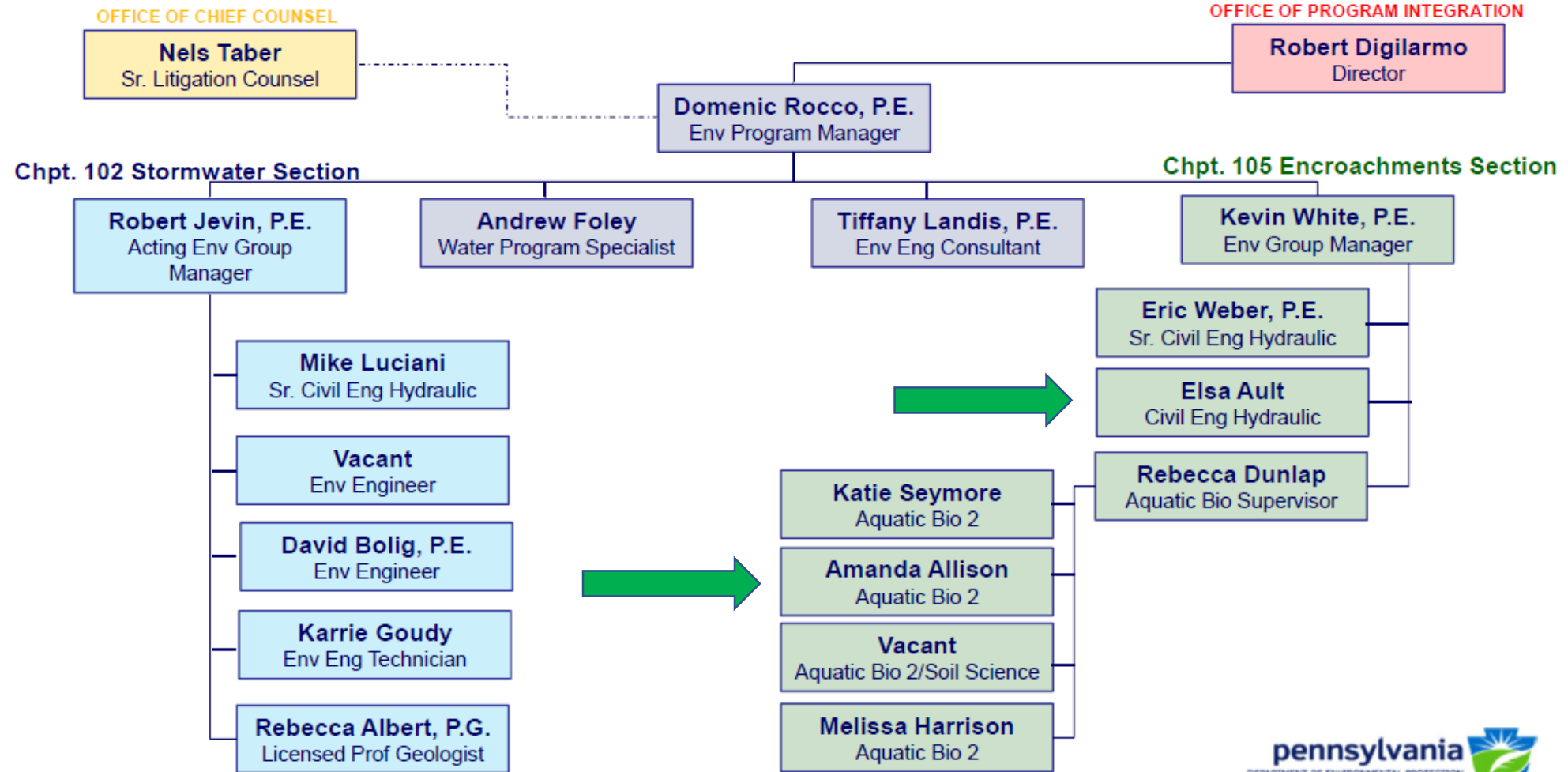
PSPC

What is a Professional Services Procurement
Committee?

RPCO

What is DEP's Regional Permit
Coordination Office?

Regional Permit Coordination Office (RPCO)





ABC

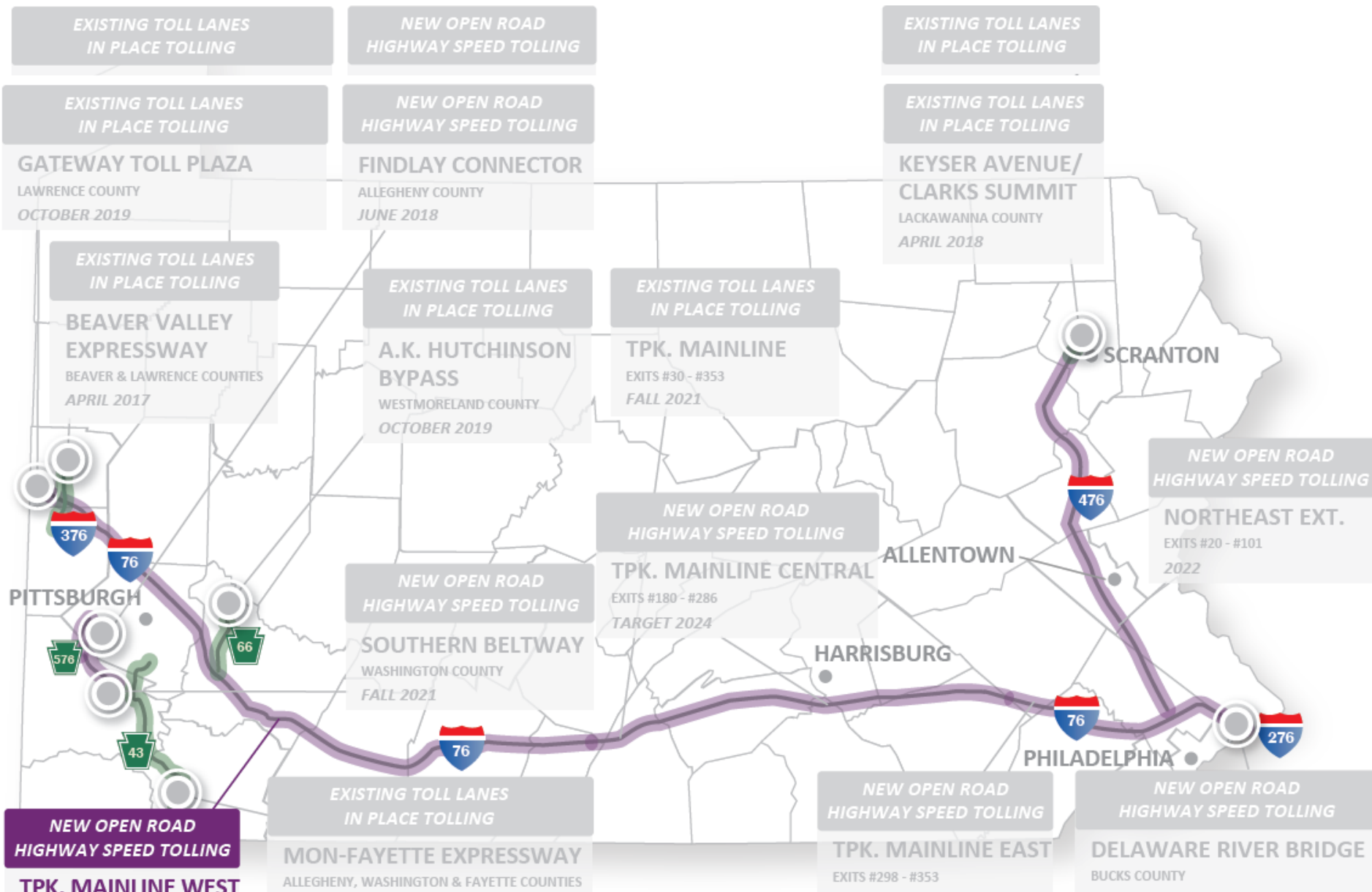


What is Accelerated Bridge Construction?

ORT



What is Open Road Tolling?



DRB



**REQUEST FOR INFORMATION
REGARDING PROJECT DELIVERY APPROACH FOR THE I-95
DELAWARE RIVER BRIDGE ON THE
PENNSYLVANIA TURNPIKE AND NEW JERSEY TURNPIKE**

RFI Issuance Date: November 18, 2019

RFI Closing Date: January 10, 2020

RFI Solicitation: P319R06



Keystone Building
400 North Street
Harrisburg, PA 17120

What is the Delaware River Bridge?

Errors & Omissions

Design Flaw

What is a Design Error?

Design Oversight

What is a Design Omission?

14

What is the # of Design Error occurrences
between 01Nov18 and 31Oct19?

15

What is the # of Design Omission occurrences
between 01Nov18 and 31Oct19?

\$1,064,709.68

What is the Design Omission costs
between 01Nov18 and 31Oct19?

\$1,282,797.80

What is the Design Error costs between
01Nov18 and 31Oct19?
(Recouped \$162,505.58)

Performance Report FY19

1.1%

What is the % of poor deck by area for NHS bridges? (FHWA 4.5%)

2.3%

What is the % of poor deck by area for non-NHS bridges? (FHWA 6.8%)

91.2

What is the pavement condition rating?
(Target > 80)

71.0

What is the International Roughness Index?
(Target < 100)

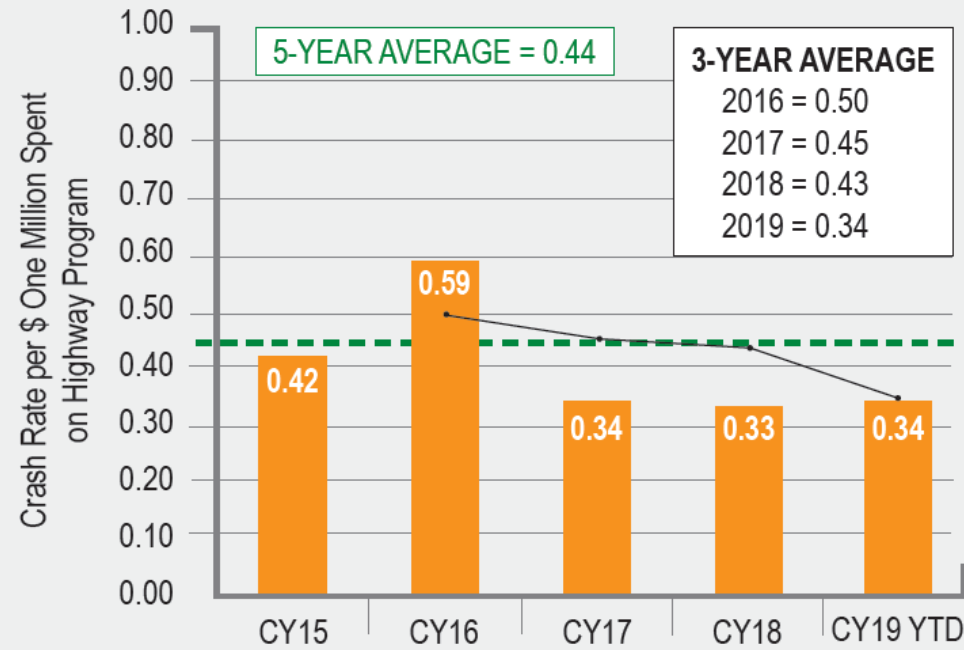
16.9%

What is the Diverse Participation?

0.33

What is the Work Zone Crashes
(crashes/\$M spent)?

WORK ZONE CRASH RATE BY CALENDAR YEAR



Calendar Year	\$ Spent (Million)	# of Crashes	# of Fatalities
2015	\$648.6	270	5
2016	\$595.9	354	1
2017	\$539.5	186	1
2018	\$488.4	160	0
2019 YTD	\$353.7	119	0
5-Yr Avg	\$555.1	243	2

Don't be
Brian Hart



Who is Gary
Graham?



Who is Mike
Shaak?



Who is Don
Klingensmith?



Who is Mark
Compton?



Who is Vice
Chair
Lieberman?

Final Jeopardy

Chief Engineers of the
PA Turnpike from
1990 to 2019.

Wilson
Sokol
Graham
Jansen
Kempf
Heigel



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**Thank you ... Any
Questions??**

