

# ▶ Outreach 2016

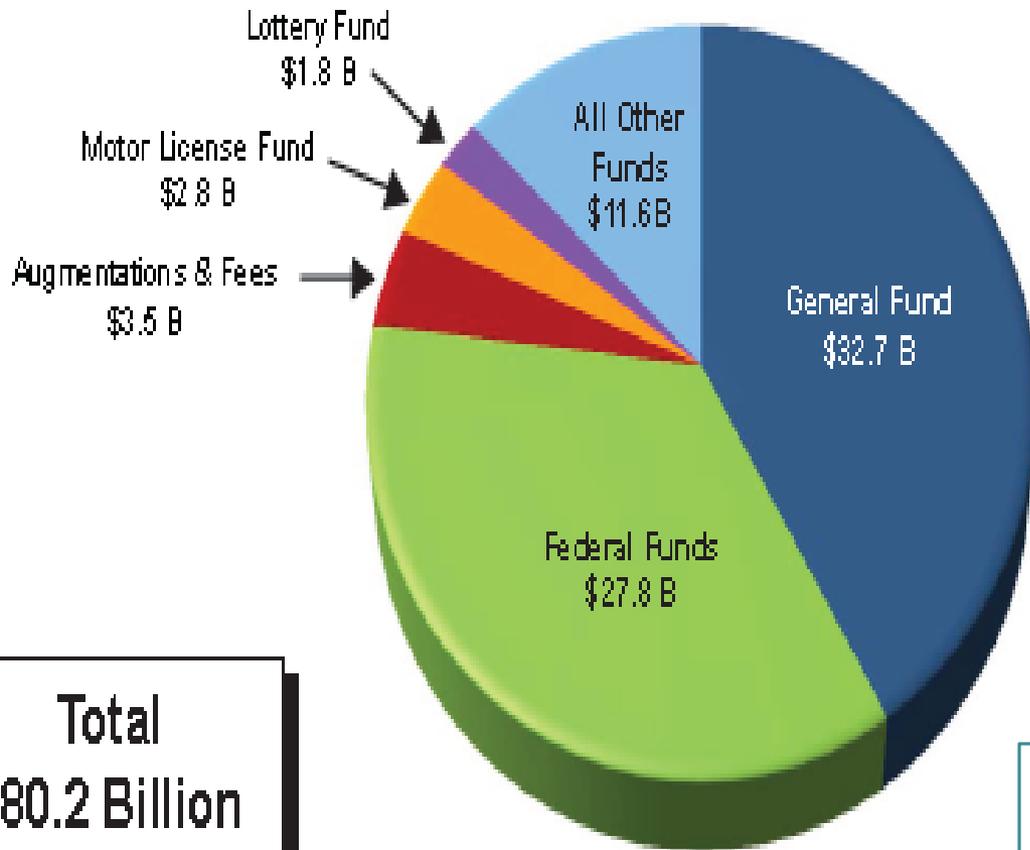


## Agenda

- Budget in Brief
- Liquid Fuels Distributions
- 2016 Construction Projects
- 2017-2019 Projects in Design
- County Budgets
- County Transformation
- P3 – Public/Private Partnership for Bridges - update
- County Maintenance Overview

# Total Operating Budget

## 2016-17 Budget Overview



# Total Operating Budget

**Total  
\$80.2 Billion**

\$7.84 Billion PennDOT's Total Budget

# Motor License Fund

## INCOME

(Dollars in Millions)



Liquid Fuels Tax - \$1,766

Licenses and Fees - \$1,003

Other - \$47

Total Income.....	\$2,816
Beginning Balance....	34
<b>TOTAL.....</b>	<b>\$2,850</b>

## OUTGO

(Dollars in Millions)



Highways & Bridges - \$1,282

State Police - \$814

Local Subsidy - \$328

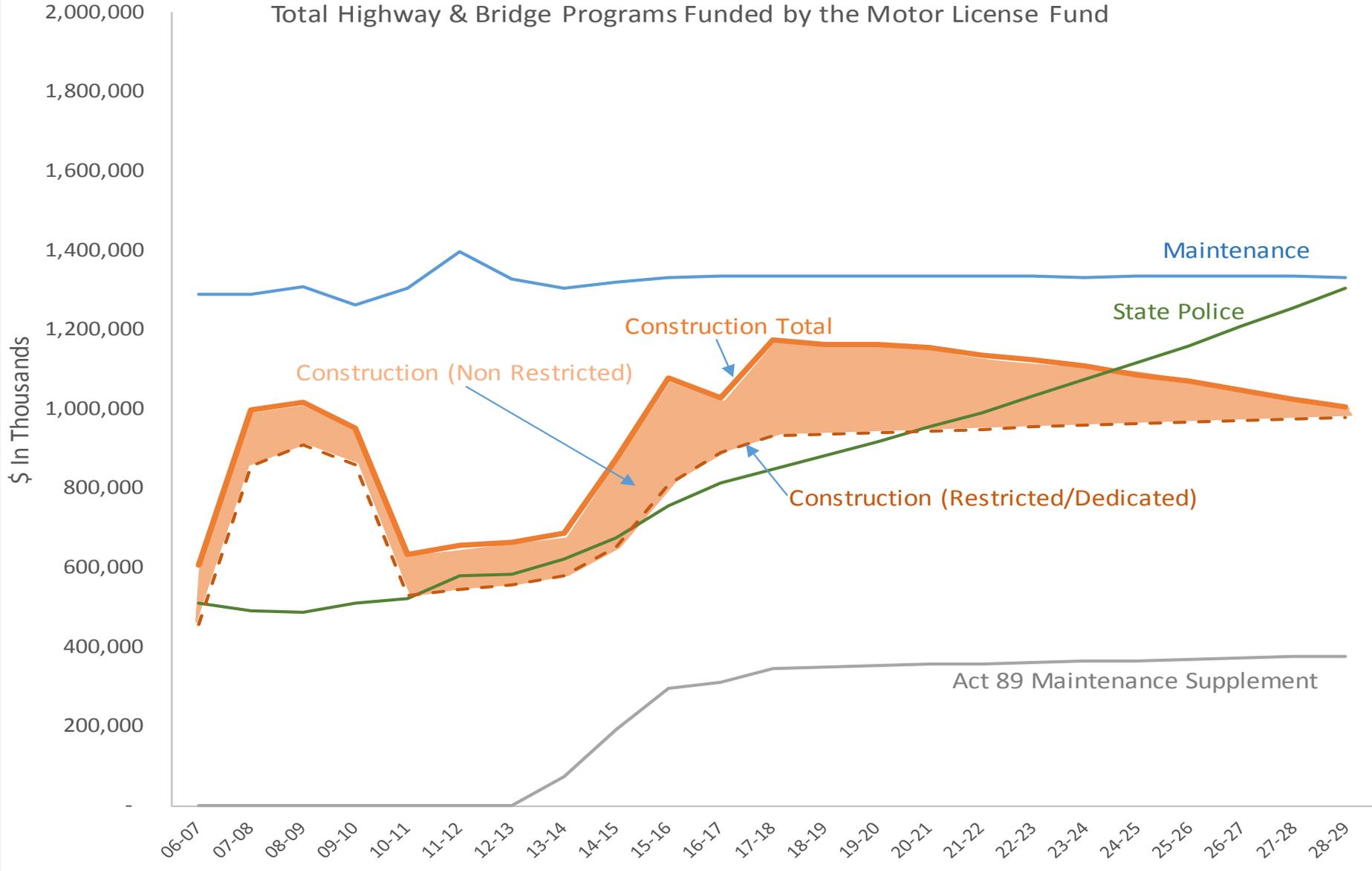
Other - \$207

Licensing & Safety - \$158

Debt Service - \$43

Total Outgo.....	\$2,832
Ending Balance.....	18
<b>TOTAL.....</b>	<b>\$2,850</b>

**Exhibit 1-1**  
**PennDOT Present Funding Forecast**  
**Total Highway & Bridge Programs Funded by the Motor License Fund**

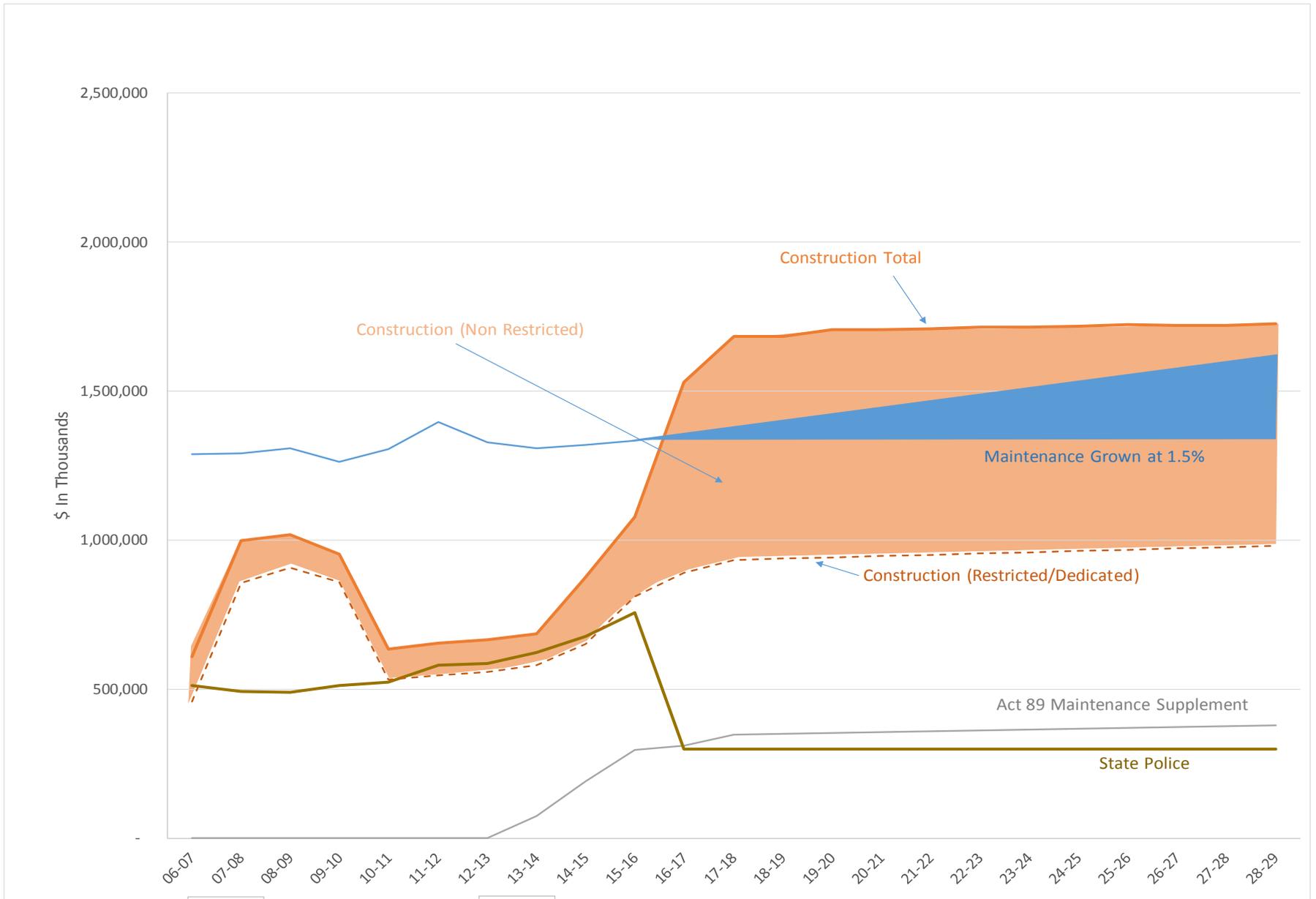


\*07-08 Act 44 of 2007

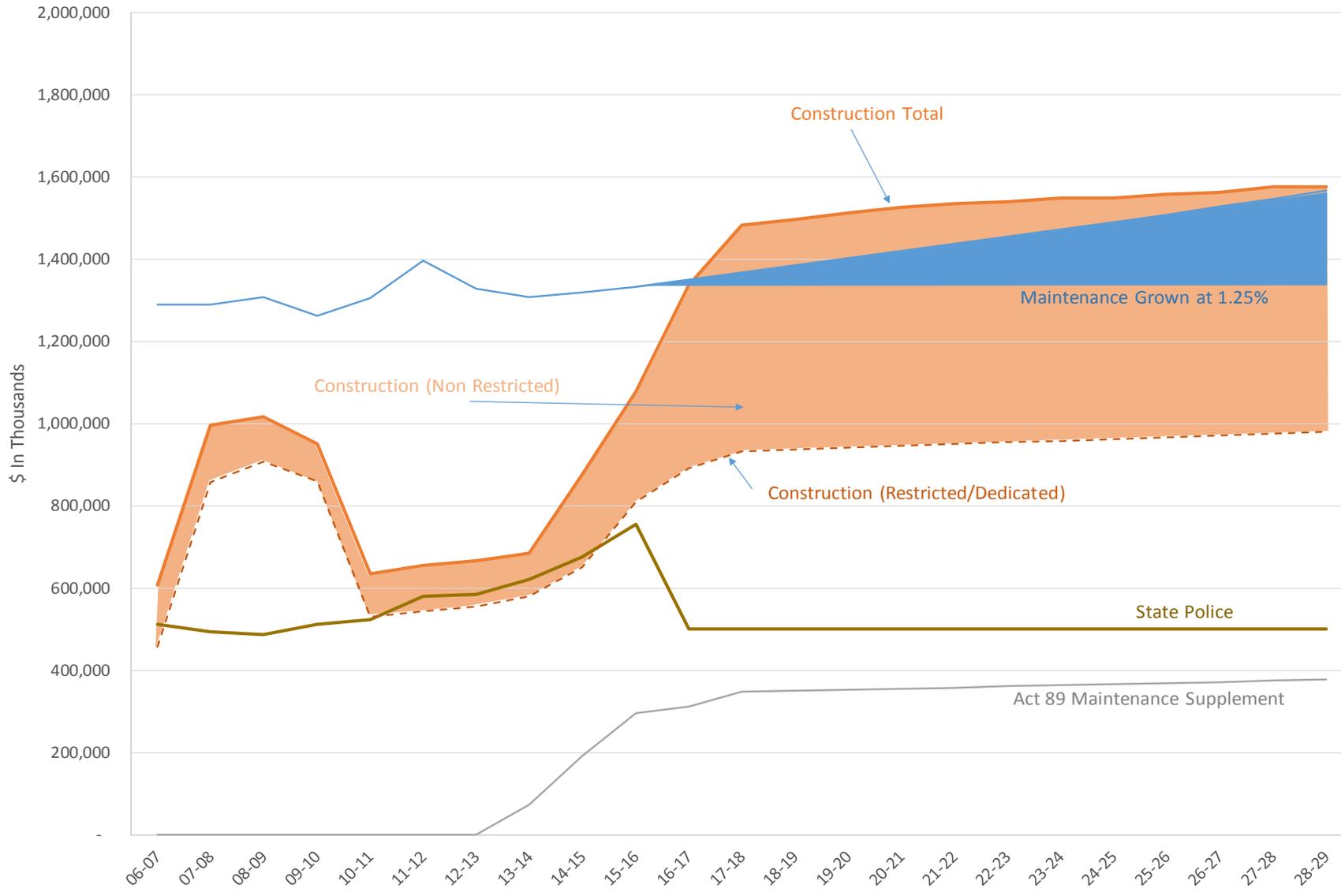
\*13-14 Act 89 of 2013

New 12 Year Program FY 17-28

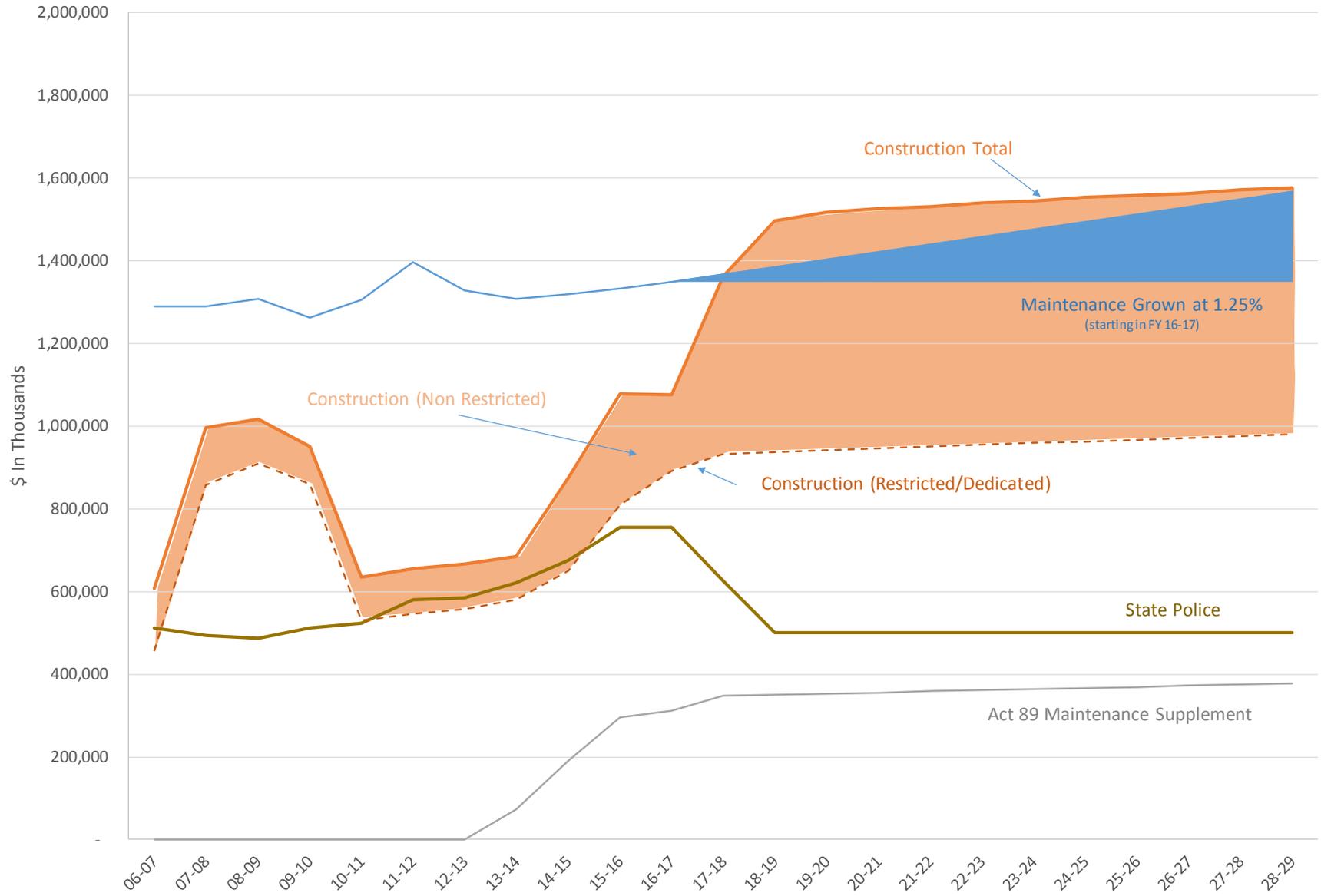
**PennDOT Present Funding Forecast**  
**Assuming \$300 Million Cap on the State Police in the MLF**  
**Total Highway & Bridge Programs Funded by the Motor License Fund**



**PennDOT Present Funding Forecast**  
**Assuming \$500 Million Cap on the State Police in the MLF**  
**Total Highway & Bridge Programs Funded by the Motor License Fund**



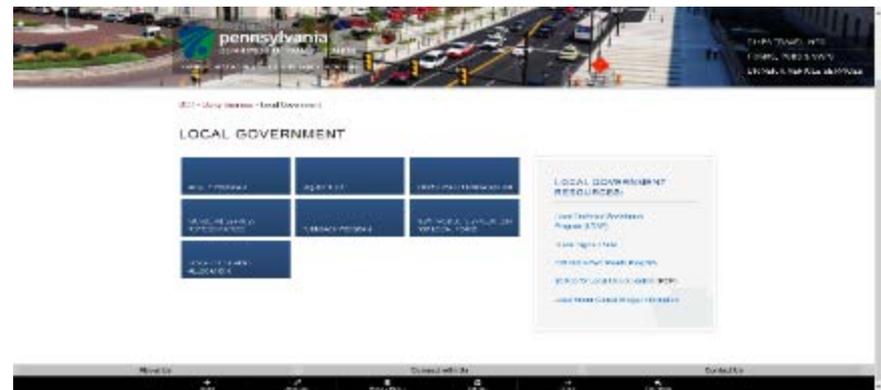
**PennDOT Present Funding Forecast**  
**Assuming \$755, \$625, and \$500 Million Cap on the State Police in the MLF**  
**Total Highway & Bridge Programs Funded by the Motor License Fund**



# Liquid Fuels Payments

- 2013 - Before Act 89 - \$320.8 million
- 2015 - \$381 million
- 2016 - \$445.3 million
- 16% increase, \$64 million additional funds (15/16)
- 120,039 miles of public roads; 72,759 owned by municipalities
- For the complete list of local payments, visit the “Municipal Liquid Fuels Program” Local Government page.

[www.penndot.gov](http://www.penndot.gov)  
Doing Business  
Local Government



## ▶ Indiana County

- 2016 - \$5,033,623.79
- 2015 - \$4,310,731.00
- Percent increase – 16.7%
- Miles of road – 1,135.86



# ▶ Outreach 2016



# PA286-Tanoma Rd. to Franklin

- ECMS #100092
- SR 286
- Indiana County
  - Cherryhill and Rayne Twps.
- Resurfacing / Overlays
- Cost: \$3,206,585
- Derry Construction Co., Inc.
- Let: 1-15-15



# Shelocta Bridge #1

- ECMS #25693
- SR 422
- Indiana County  
– Armstrong Twp.
- Bridge  
Replacement
- Cost: \$3,443,909
- BECDIR  
Construction  
Company
- Let: 10-23-14



# Home Railroad Bridge

- ECMS #25513
- SR 119
- Indiana County
  - RayneTwp.
- Bridge Replacement
- Cost: \$9,773,662
- Swank Construction Company, LLC
- Let: 8-27-15



# United High School Curve

- ECMS #90194
- SR 56
- Indiana County
  - East Wheatfield Twp.
- Relocation / New Construction
- Cost: \$7,974,133
- A. Liberoni, Inc.
- Let: 8-27-15



# US422 S.6th St. EB/WB Br

- ECMS #96961
- SR 422
- Indiana County  
– White Twp.
- Bridge  
Replacement
- Cost: \$10,747,836
- Francis J. Palo,  
Inc.
- Let: 10-9-14



## US119 East Pike NB/SB Br.

- ECMS #25619
- SR 119
- Indiana County  
– White Twp.
- Bridge Replacement
- Cost: \$3,019,663
- Plum Contracting, Inc.
- Let: 10-9-14



# US 119 Blais Bridges

- ECMS #99514
- SR 119
- Indiana County
  - White Twp.
- Bridge Replacement
- Cost: \$3,586,745
- Swank Construction Company, LLC
- Let: 8-13-15



# Yellow Creek Park Intersection

- ECMS #90196
- SR 422
- Indiana County  
– Cherryhill Twp.
- Widening,  
additional lanes
- Cost: \$3,042,416
- HRI, Inc.
- Let: 6-19-14



# Rt 286: 422 Intrchnng West

- ECMS #104458
- SR 286
- Indiana County  
– White Twp.
- Widening,  
additional lanes
- Cost: \$5,455,246
- Frank J. Zottola  
Construction, Inc.
- Let: 10-1-15



# Wehrum Bridge

- ECMS #74310
- SR 2013
- Indiana County  
– Buffington Twp.
- Bridge  
Replacement
- Cost: \$2,676,444
- Glenn O.  
Hawbaker, Inc.
- Let: 10-22-15



# US 119 Homer City North

- ECMS #91256
- SR 119
- Indiana County
  - Center Twp.
- Relocation / New Construction
- Cost: \$8,812,725
- Gulisek Construction LLC
- Let: 9-3-15



# Edgewood Int. Improvement

- ECMS #95898
- SR 286
- Indiana County
  - Center Twp.
- Safety Improvement
- Cost: \$1,205,781
- HRI, Inc.
- Let: 1-7-16



# Trade City South Resurfacing

- ECMS #105503
- SR 954
- Indiana County
  - North and West Mahoning Twps
- Resurfacing/Overlays
- Cost: \$1,830,713
- Quaker Sales Corporation
- Let: 3-24-16



# Hot In Place Recycling

- ECMS #105072
- SR 85
- Indiana County
  - North Mahoning Twp
- Resurfacing/Overlays
- Cost: < \$1 million
- Let: 4-7-16



# Grove Chapel Climbing Lane

- ECMS #25472
- SR 119
- Indiana County
  - Rayne Twp
- Relocation/New Construction
- Cost: \$10.0 to \$12.5 million
- Let: 4-7-16



## 2016 Guiderail – 5 Contracts

- ECMS #105757 - Armstrong County
  - ECMS #105758 - Butler County
  - ECMS #105759 - Clarion County
  - ECMS #105760 - Indiana County
  - ECMS #105761 - Jefferson County
- 
- Let: 5-19-16
  - Completion: 6-30-17



## 2016 Small Paint

- ECMS #105762
- Various
- District Wide
- Miscellaneous Paint
- Cost: <\$200,000
- Let: 5-19-16



## Brush Valley Bridge #3

- ECMS #83206
- SR 56
- Indiana County
  - Brush Valley Twp
- Bridge Replacement
- Phased Construction
- Cost: \$1.0 to \$2.5 million
- Let: 6-9-16



# Ewings Mill Bridge #1

- ECMS #25699
- SR 422
- Indiana County
  - Cherryhill Twp
- Bridge Replacement
- Phased Construction
- Cost: \$1.0 to \$2.5 million
- Let: 6-23-16



# ▶ 2017-2019 Projects in Design



# Alverda Bridge No. 2 – P3

- Route 553
- Bridge Replacement
- Pine Township
- Dutch Run
- Phased Construction
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



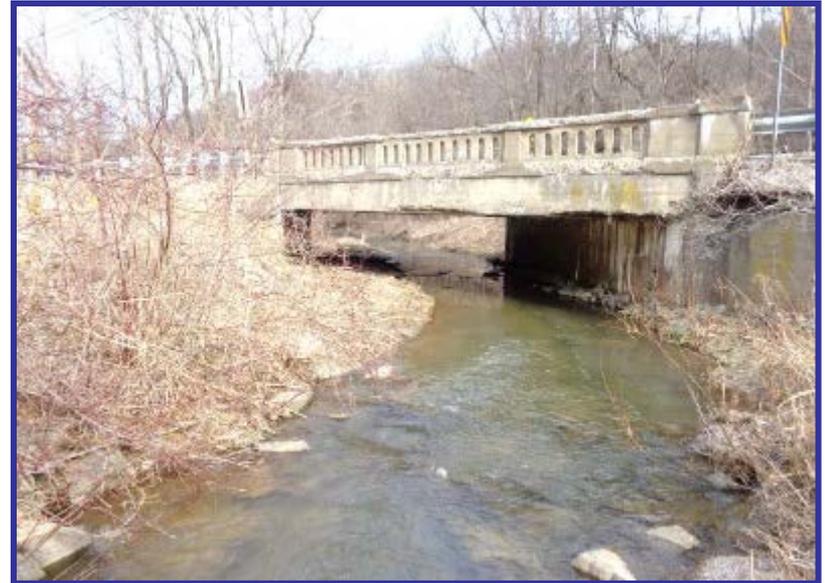
# Willet Bridge – P3

- Route 954
- Bridge Replacement
- Washington Township
- South Branch of Plum Creek
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



# ▶ Marshall Run Bridge No. 2 – P3

- Route 3007
- Bridge Replacement
- Conemaugh Township
- Marshall Run
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2016 Construction



# US 119 Three Bridges

- Route 119
- Bridge Replacement, 2 Removals and Tide Road connection to Route 119.
- Center Township
- Yellow Creek, Tide Road, Abandoned Railroad
- Construction in 2017
- Construction Estimate: \$10M - \$15M



# ▶ PA 954 over North Branch Plum Creek

- Route 954
- Bridge Replacement
- South Mahoning Township
- North Branch of Plum Creek
- Detour
- Construction in 2017
- Construction Estimate:  
\$1M - \$2.5M



# US 422 over Branch of Carney Run

- Route 422
- Bridge Replacement
- Pine Township
- Branch of Carney Run
- Maintain 2 Lanes of Traffic
- Construction in 2017
- Construction Estimate:  
\$1M - \$2.5M



# Plumville Bridge #1

- Route 85
- Bridge Replacement
- Plumville Borough
- North Branch of Plum Creek
- Phased Construction
- Construction in 2017
- Construction Estimate:  
\$1M - \$2.5M



# ▶ Clarksburg Bridge No. 3 – P3

- Route 286
- Bridge Replacement
- Young Township
- Blacklegs Creek
- Phased Construction
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



# ▶ Kimmel Road Bridge No. 1 – P3

- Route 4010
- Bridge Replacement
- Rayne Township
- Crooked Creek
- Detour
- Private Public Partnership
- Plenary Walsh Keystone Partners
- 2017 Construction



# Grange Bridge

- Route 217
- Bridge Replacement and Realignment
- Blacklick Township
- Stewart Run
- Construction in 2017
- Construction Estimate:  
\$2.5M - \$5M



# Gipsy Bridge #1

- Route 1056
- Bridge Replacement
- Montgomery Township
- West Branch of Cush Creek
- Detour
- Construction in 2017
- Construction Estimate:  
\$1M - \$2.5M



# US 22 Blairsville No. 1 Truss

- Route 22
- Bridge Preservation
- Burrell Township
- Conemaugh River
- Construction in 2018
- Construction Estimate:  
\$7.5M - \$10M



# Onberg and Ruffner Church Bridges

- Route 1005
- Bridge Replacements
- Rayne Township
- Crooked Creek /  
Tributary to Crooked  
Creek
- Detour
- Construction in 2018
- Construction Estimate:  
\$1M - \$2.5M



Onberg Bridge



Ruffner Church Bridge

# Upper Juneau Bridge

- Route 1045
- Bridge Replacement
- Canoe Township
- Canoe Creek
- Detour
- Construction in 2018
- Construction Estimate:  
\$1M - \$2.5M



# SR 119 Indiana Group Bridges

- Route 119
- Bridge Replacements
- Rayne Township
- Tributary to Pine Run
- Phased Construction
- Construction in 2018
- Construction Estimate:  
\$1M - \$2.5M



# SR 286 Indiana Group Bridges

- Route 286
- Bridge Replacements
- Montgomery Township
- Horton Run and Tributary to Cush Creek
- Phased Construction
- Construction in 2018
- Construction Estimate:  
\$2.5M - \$5M



# Newport Road Bridge No. 3

- Route 3009
- Bridge Deck Replacement
- Conemaugh Township
- Aultmans Run
- Detour
- Construction in 2018
- Construction Estimate:  
\$2.5M - \$5M



# ▶ PA 286 over North Branch Two Lick

- Route 286
- Bridge Replacement
- Green Township
- North Branch of Two Lick Creek
- Phased Construction
- Construction in 2018
- Construction Estimate:  
\$1M - \$2.5M



# Five Points Road Bridge

- Route 4001
- Bridge Replacement
- Armstrong Township
- Crooked Creek
- Detour
- Construction in 2018
- Construction Estimate:  
\$1M - \$2.5M



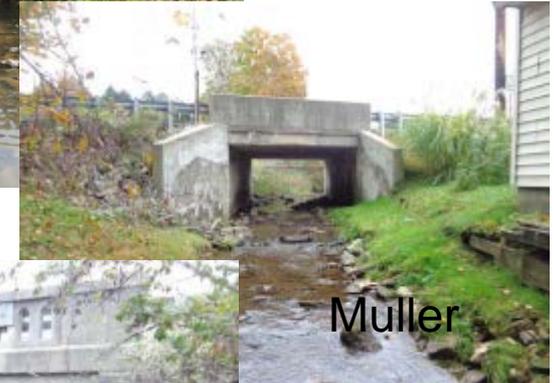
# ➤ SR 4035 North Branch Plum Creek Bridge

- Route 4035
- Bridge Replacement
- Plumville Borough
- North Branch of Plum Creek
- Construction in 2019
- Construction Estimate:  
\$1M - \$2.5M



# White Township Bridges Group

- Routes 110 and 4005
- Bridge Replacements
- White Township
- McKee Run
- Phased Construction
  - Shick Drive, Muller, Grove
- Detour
  - Frances (2 weeks)
- Construction in 2019
- Construction Estimate:  
\$2.5M - \$5M



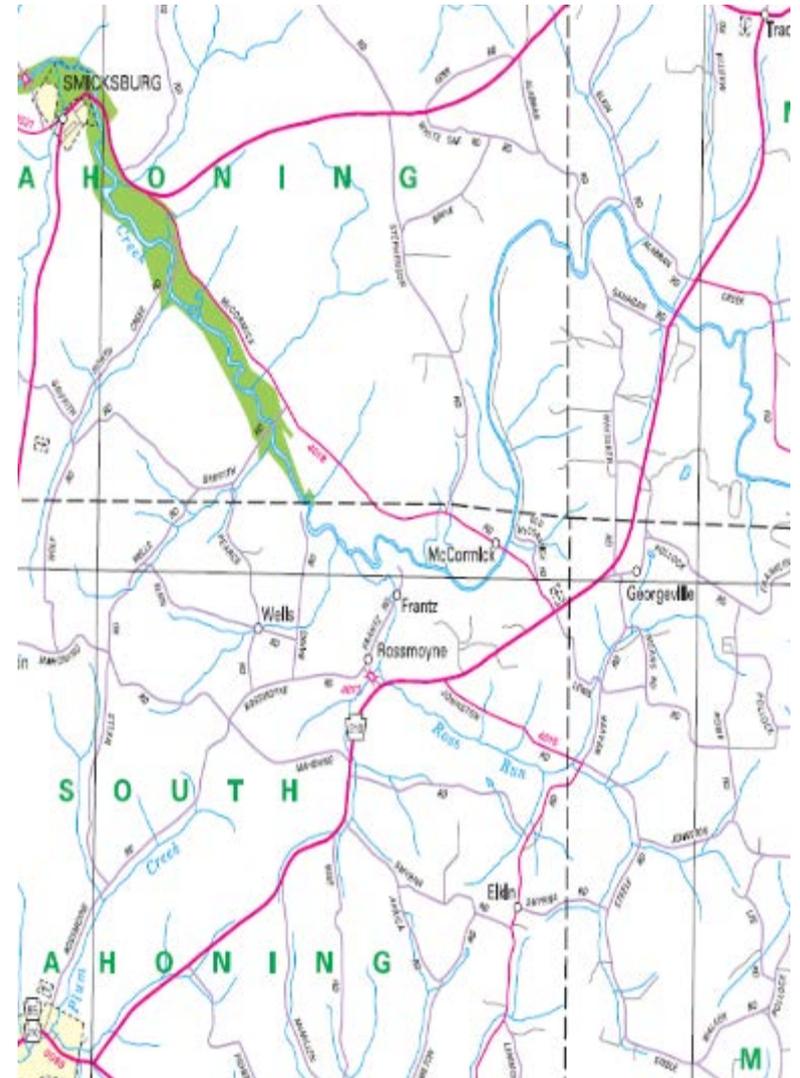
# Route 422 Cunningham Culvert

- Route 422
- Bridge Replacements
- Armstrong Township
- Curry Run and Tributary to Curry Run
- Maintain Traffic
- Construction in 2019
- Construction Estimate:  
\$2.5M - \$5M



# Trade City South PM

- Route 210
- Resurfacing
- North, South and East Mahoning Townships
- Construction in 2019
- Construction Estimate: \$2.5M - \$5M



# Shelocta West Resurfacing

- Route 422 - Resurfacing
  - Elderton Borough and Plumcreek Township, Armstrong County
  - Shelocta Borough and Armstrong Township, Indiana County
- Construction in 2019
- Construction Estimate: \$2.5M - \$5M



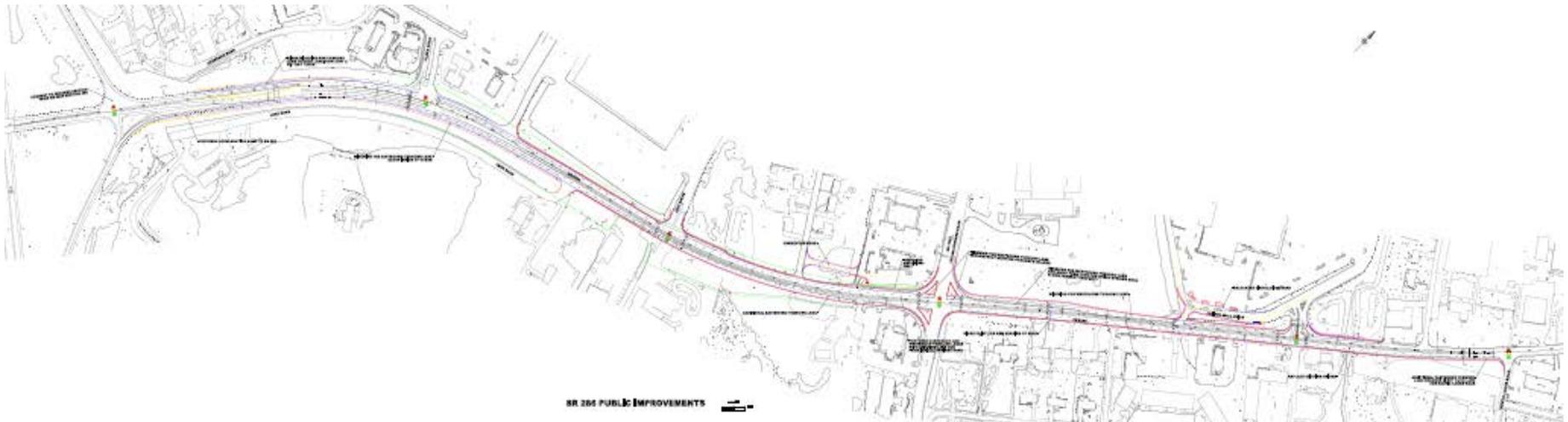
# Armagh Bypass PM

- Route 22 - Resurfacing
- East Wheatfield Township
- Construction in 2019
- Construction Estimate: \$2.5M - \$5M



# PA 286: US 422 Interchange East

- Route 286 - Highway Capacity
- White Township
- Construction in 2019
- Construction Estimate: \$10M - \$12.5M



# Dixonville Bridge #1

- Routes 403 and 1012
- Bridge Replacements
- Green Township
- Dixon Run
- Phased Construction
- Construction in 2020
- Construction Estimate:  
\$2.5M - \$5M



# Philadelphia Street Bridges Group

- Route 286 and 4032
- Bridge Replacements
- Indiana Borough
- Whites Run and Marsh Run
- Construction Not Funded
- Construction Estimate:  
\$1M - \$2.5M



## SR 4005 Mack Park and SR 4030 Carter Avenue Bridges

- Routes 4005 and 4030
- Bridge Replacements
- White Township, Indiana Borough
- Marsh Run
- Construction Not Funded
- Construction Estimate:  
\$2.5M - \$5M



# Wake Robin Curve

- Route 119
- Roadway Reconstruction and Realignment
- Rayne Township
- Not funded for Construction
- Construction Estimate: \$15M - \$20M



# ➤ SR 1012 over Penn Run Bridge

- Route 1012
- Bridge Replacement
- Cherryhill Township
- Penn Run
- Detour
- Construction in 2017
- Department Force Bridge



# Clune Bridge No. 1

- Route 3029
- Bridge Replacement
- Young Township
- Tributary to Neal Run
- Detour
- Construction in 2018
- Department Force Bridge



# Grange Hall Bridge

- Route 2013
- Bridge Replacement
- East Wheatfield Township
- Tributary to Conemaugh River
- Detour
- Construction in 2019
- Department Force Bridge

# Future Local Projects

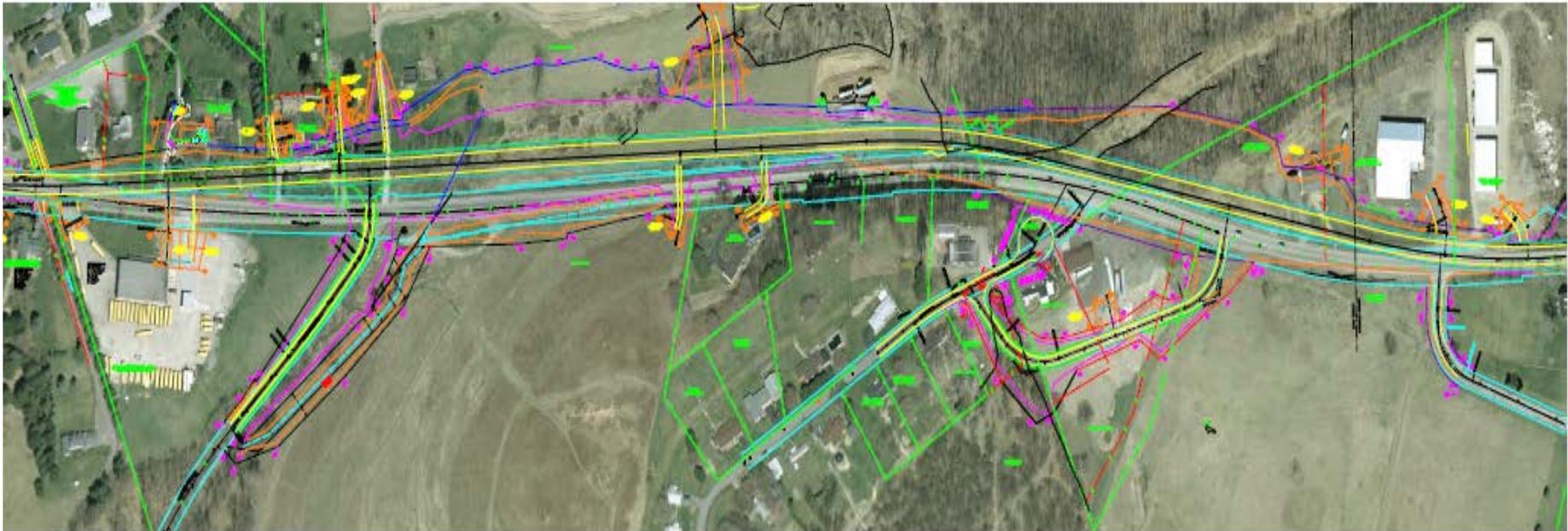
- T-460 Aultman Bridge #3
  - Blacklick Township
  - Bridge Replacement
  - Construction in 2018

# ▶ Indiana County Outreach

Route 422 Projects in Armstrong County

# Wray Road Cut

- Route 422 - Safety Improvement
- Kittanning and Manor Townships
- Construction in 2017
- Construction Estimate: \$10M - \$12.5M



# Kittanning Elementary School Intersection

- Route 422 - Safety Improvement
- Kittanning Township
- Construction in 2020, Not Fully Funded
- Construction Estimate: \$7.5M - \$10M



# Margaret Road Intersection

- Route 422 - New Alignment
- Plumcreek Township
- Construction in 2020, Not Fully Funded
- Construction Estimate: \$20M - \$25M



# ► Maintenance



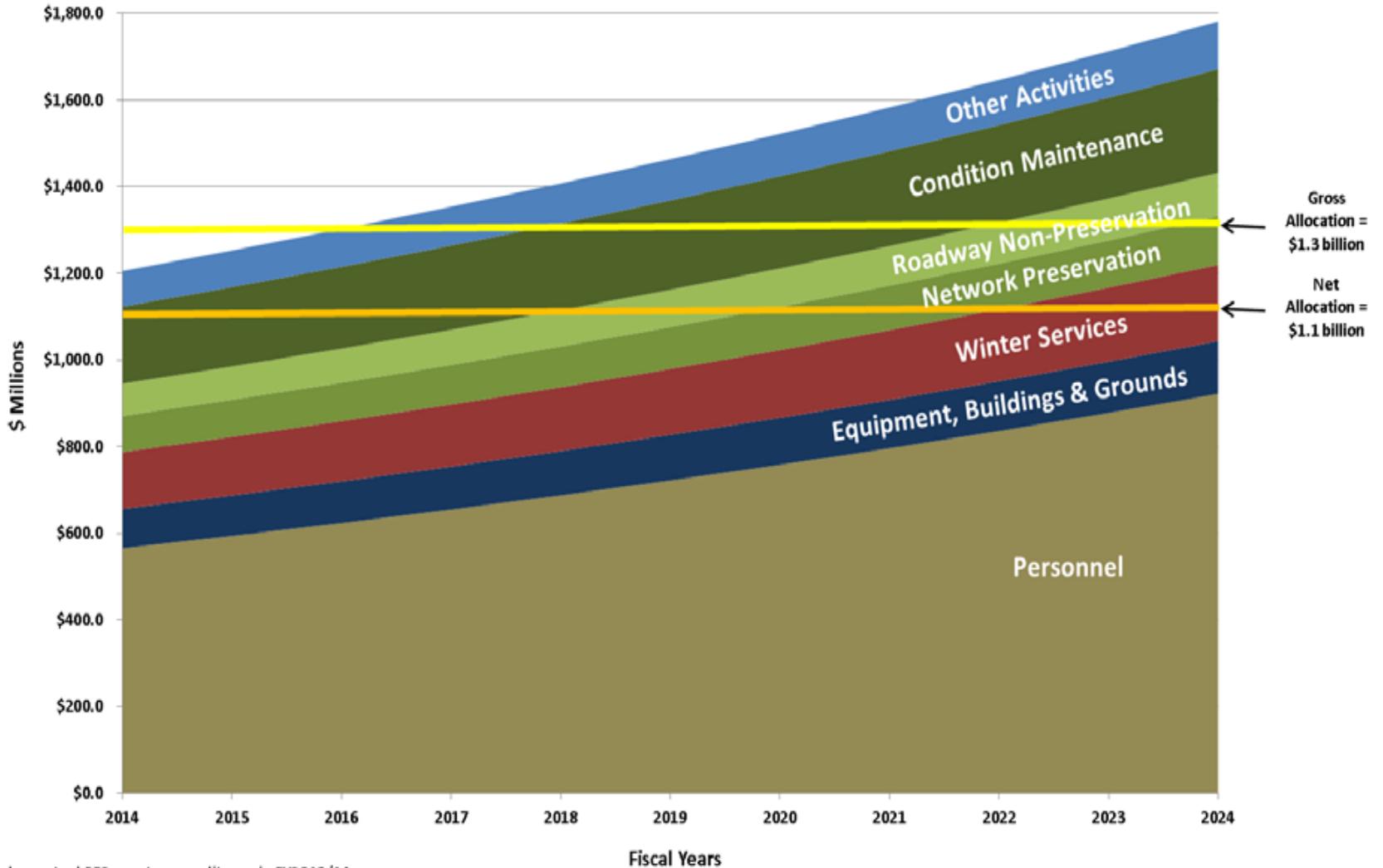
# Maintenance Allocation

## MAINTENANCE ALLOCATION

COUNTY	12-13 Allocation (millions)	13-14 Allocation (millions)	14-15 Allocation (millions)	15-16 Allocation (millions)	\$ Increase (millions)	% Increase
Armstrong	\$20.4	\$19.9	\$20.7	\$20.7	\$0.0	0.00%
Butler	\$23.4	\$23.0	\$23.9	\$24.6	\$0.7	2.4%
Clarion	\$13.8	\$13.6	\$14.4	\$14.7	\$0.3	2.1%
Indiana	\$22.2	\$21.5	\$22.1	\$22.7	\$0.6	2.7%
Jefferson	\$16.5	\$16.3	\$16.7	\$17.1	\$0.4	2.4%
<b>District Total</b>	<b>\$96.3</b>	<b>\$94.3</b>	<b>\$97.7</b>	<b>\$99.8</b>	<b>\$2.1</b>	<b>2.15%</b>

2015-2016 Reflects a 2.15% increase

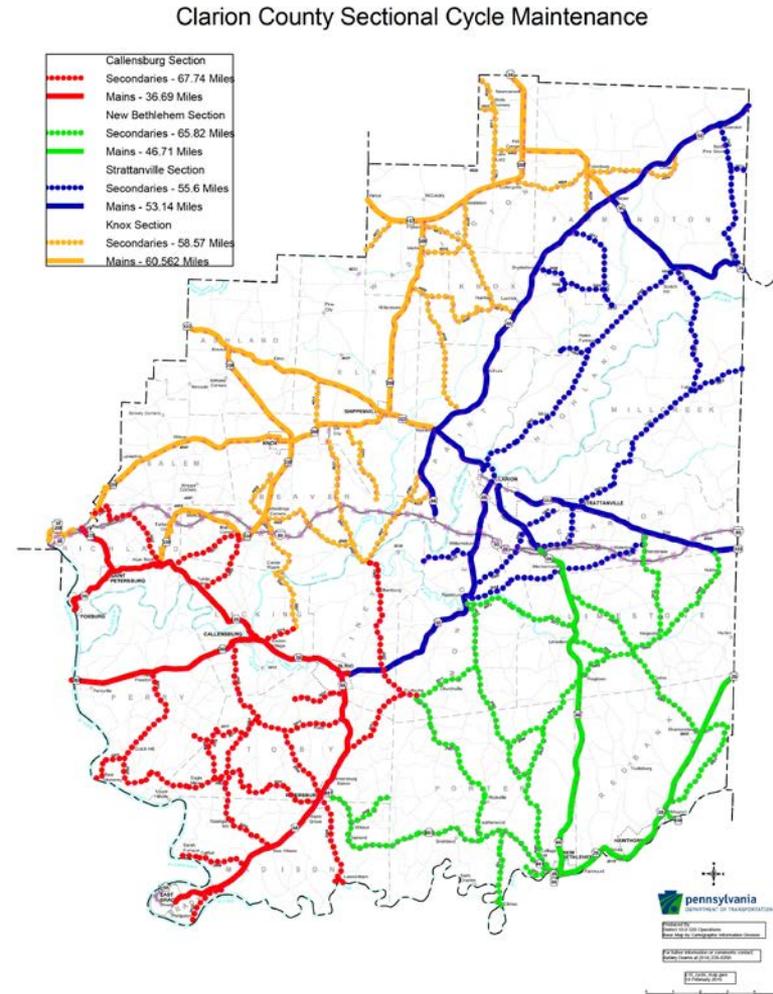
## Projected Net County Funding and Expenditures<sup>1</sup>: 2014 to 2024 All Counties



<sup>1</sup> Based on actual 582 county expenditures in FY2013/14

# County Budgets

- Planning process – sectional cycle adjustments
- Preservation – new products and processes to stretch the dollar



# County Transformation

- First cut
  - Peer County Comparisons
  - Winter staffing and snow routes
  - Department force vs Contract work



# 2016 County Transformation

## District Visits

- Budget, Winter, Equipment, Highways, Bridges
- Best Practices
- Opportunities for improvement
- Improved tools



# County Transformation

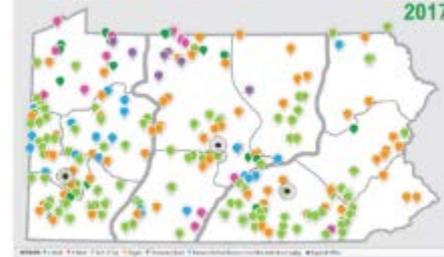
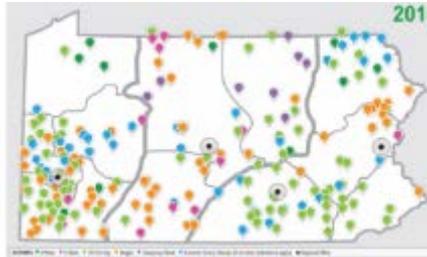
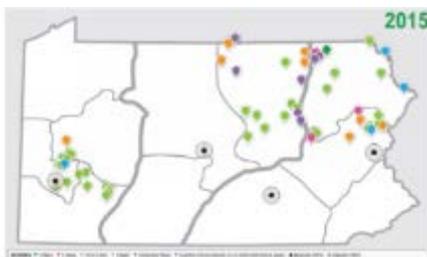
- County Accreditation
  - Ensure data is applied to apples
  - Baseline of production standards and cost effectiveness
  - Measurement systems and corrective action

Production



# RBR Project: Overview

- Rapid Bridge Replacement Program (RBRP) is the first P3 construction project for PennDOT
  - Project was approved by the Commonwealth's Public Private Transportation Partnership Board in September 2013
- Project includes the design, demolition, construction, financing and routine maintenance/ lifecycle maintenance for **558 structurally deficient bridges** across Pennsylvania (geographically dispersed)



# RBR Project: Why P3?

- Accelerate the replacement of SD bridges
- Maximize efficiencies to deliver more projects
- Minimize the impact to traveling public
- Allocate risks to the party best able to manage them
- Establish P3 as a viable way to get projects done



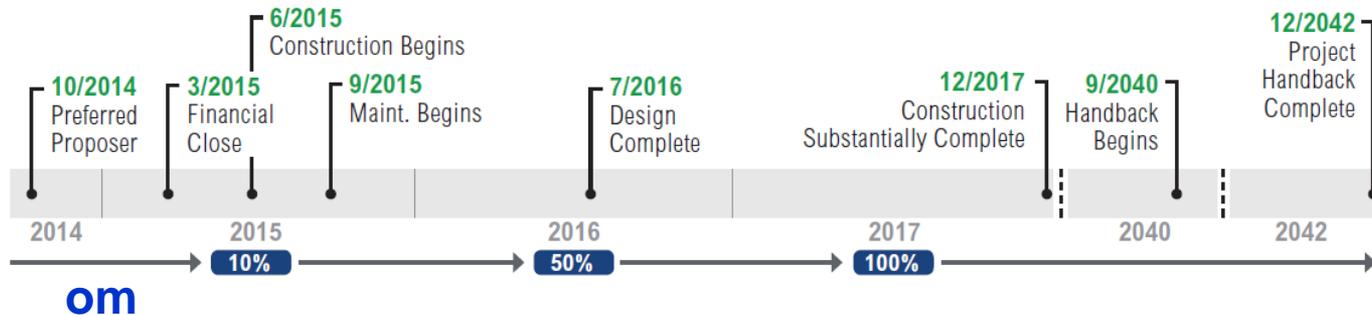
# RBR Project: Meet the Team

- **Development Entity** – Plenary Walsh Keystone Partners
- **Lead Construction Firm** – Walsh Granite JV
- **Lead Design Engineering Firm** – HDR
- **Lead Maintenance Firm** – Walsh Infrastructure Management (WIM)
- **Construction Quality Acceptance Firm** – TRC



# RBR Project: P3 Arrangement

- Transaction Highlights:
  - 1 DBFM Contract
  - PennDOT maintains ownership, but the Development Entity is responsible for maintaining each bridge for 25 years after replacement
    - 28 Year Contract (w/ 25 year maintenance term per bridge)



# RBR Project: “Game Changer”

- First multi-asset, multi-location P3 project to close in US
- Fastest executed P3 procurement in the US with a 12 month timeline from RFQ issuance to commercial close, and 15 months from RFQ to financial close
- Includes the largest Private Activity Bond financing of a transportation P3 in US history with \$721.5 million
- Shares the permitting risk on 558 individual projects (SEP15)



## RBR Project: 2015 Status

- 74 Construction NTPs issued
- 47 bridges replaced and open to traffic
- 3 bridges with construction activity continuing
- Bridges built in 6 PennDOT Districts
- 6,250 Design submissions
- 4,713 submissions accepted/approved

## RBR Project: 2016 Effort

- 260 starts
- 200 to finish in 2016
- PPC overlays
- Some new approaches

## RBR Project: At the End of the Day...

Total number of bridges:	558
Culverts:	120
Single Span:	411
Multi-Span:	27
Average new bridge length:	60' (10' longer than existing)
Number of bridges -100':	496
Number of bridges +100':	62
Number of steel bridges:	12 (number could change)
417 bridge projects will utilize prestressed concrete beams	
2,291 total estimated number of prestressed concrete beams	
144,490 Total LF of prestressed concrete beams (over 27 miles)	
57,000 Tons of material (114 million lbs.)	
28,000 CY of concrete	
3.7 mil lbs. of rebar (1,850 Tons)	
6.1 mil LF of steel strand (1,155 Miles)	

# RBR Project: PWKP Website



Who is Plenary  
Walsh Keystone  
Partners?

What Is The  
PRB Replacement  
Project?

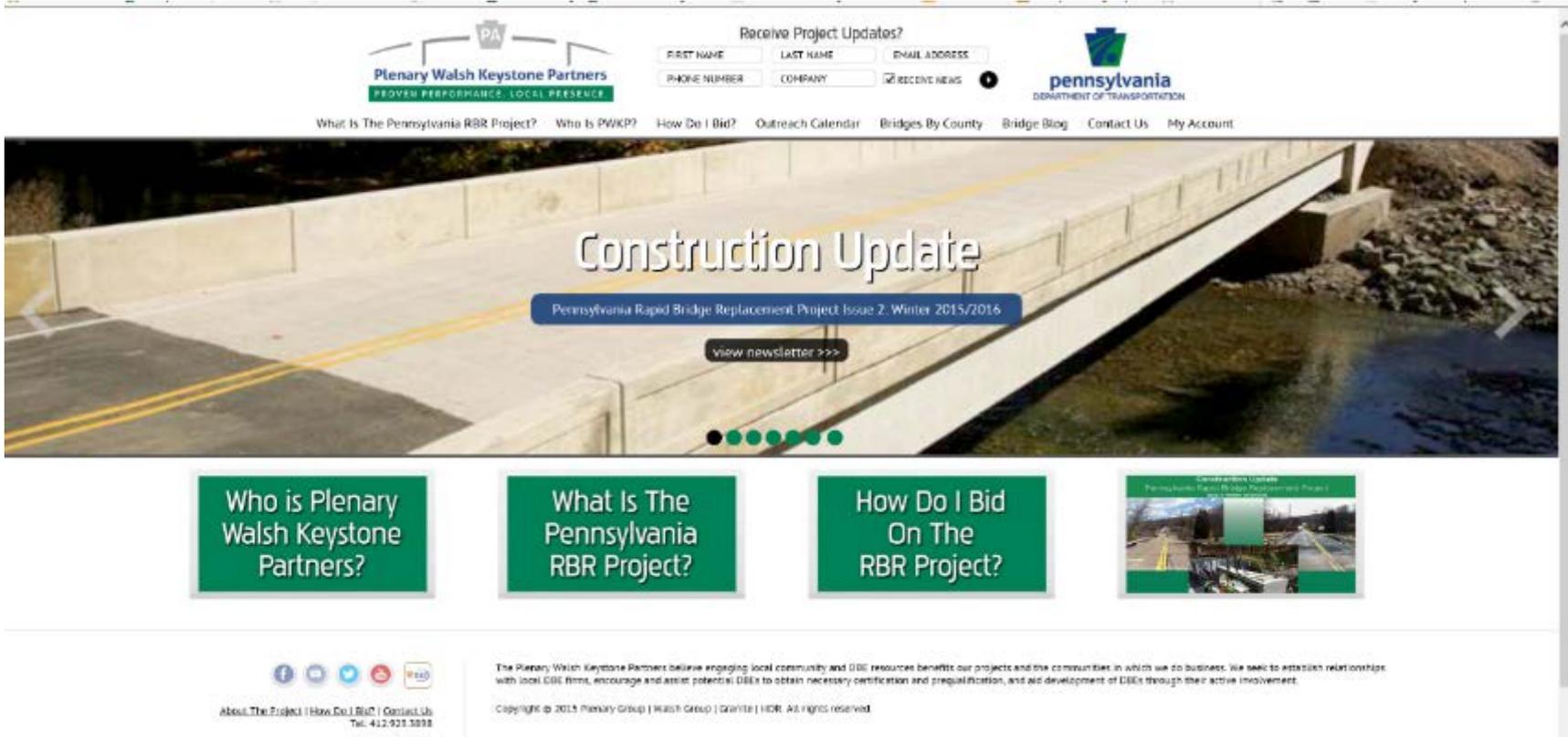
How Do I Bid On  
The PRB Replace-  
ment Project?

View The PRBR  
Project Outreach  
Calendar

[www.PARapidBridges.com](http://www.PARapidBridges.com)

<https://www.youtube.com/watch?v=F4ut-Jb9bwU>

# P3 Website



<http://www.parapidbridges.com/>

# ▶ Indiana County Maintenance



## Management Team

- John Serian— Sr. County Maintenance Manager
- Ron Gresko – Asst. County Maintenance Manager
- Ed Kaylor – Asst. County Maintenance Manager
- George McFeaters – Asst. County Maintenance Manager
- Tim Clevenger – Equipment Manager
- Glenda Palmer – Roadway Programs Coordinator

**Contact Information:**

Telephone: 724-357-2817  
2550 Oakland Avenue  
Indiana, PA 15701

## County Details

- State Road Miles = 813
- Snow Lane Miles = 1781
- State Bridges = 429
- Stockpiles = 8
- Trucks = 42

## Tow Patching

- 2015 – 5,660Tons
- 2016 - 6,000 Tons proposed



## Manual Patching / Edge Box Patching

**2015 – 2,400 Tons**

**2016 - 3,000 Tons proposed**



## Seal Coat

- 2015 – 486,000 Gallons
- 2016 – 500,000 Gallons proposed



## Shoulder Cutting

- **2015 - 270 Miles**
- **2016 - 350 Miles proposed**



## ▶ Pipe Replacement

- 2015 – 1,800'
- 2016 – 2,400'



## ▶ Pipe Flushing

- 2015 – 36,200'
- 2016 – 34,000'



## Ditch Cleaning

- 2015 – 23,000'
- 2016 – 28,000'



## ▶ Mowing and Brushing

- 2015 – Mowing – 1,225 Acres  
Brushing – 4,800 Hours
- 2016 – Mowing – 1,200 Acres  
Brushing – 4,500 Hours



## Sweeping / Debris Removal

- 2015 – 5,100 Hours
- 2016 – 4,000 Hours



## Crack Seal

- 2015 – 75 miles
- 2016 – 100 miles proposed



# ▶ Low Cost Safety Project

SR 1040 – Watering Trough Road



# Low Cost Safety Project

## SR 1003 – Lutz School Road



## Hot In Place Recycle Paving

- **Special Project – Hot in Place Recycled Paving scheduled in June.**

**\$800,000 project with DEP providing a \$500,000 grant.**

**Approximately 5.6 mile surface improvement project.**

**SR 85 west of Plumville to SR 119 intersection in Home, PA**

## Winter Resources

- Manpower and Machines
- 75 Permanent Operators
- 14 Temporary Operators
- 4 District Paint Crew Operators
- 42 Trucks
- 9 Loaders
- 3 Graders
- 4 Anti-Icing Trucks
- 1 Snow Blower

## Winter Resources

- **2015 Salt Usage –**  
**11,675 Tons @71.65 per ton - \$836,514**
- 2014 Salt Usage –  
22,700 Tons @ 64.45 – \$1,463,015  
**Savings \$626,501**
- **2015 Anti-skid Usage –**  
**10,225 Tons @20.75 per ton - \$212,131**
- 2014 Anti-skid Usage –  
23,900 Tons @20.75 per ton – \$495,925  
**Savings \$\$283,794**

## Winter Resources

- **2015 Salt Brine Usage– 266,700 Gallon-  
\$38,315**
  - 2014 Salt Brine Usage – 300,000 Gallon -  
\$64,300
  
  - **2015 – TOTAL COSTS - \$1,086,960**
  - 2014 – TOTAL COSTS - \$2,023,240
- TOTAL SAVINGS - \$936.280**

## 2016 SIP Projects – Indiana County

- **SR 954 – from Segment 570 / offset 0000 to Segment 700 / offset 2100**

**From SR 210 to Smicksburg – 7.0 miles**

- **SR 85 from Segment 70 / offset 2616 to Segment 160 / offset 2240**

**From Plumville to Home – 5.6 miles**

**Hot in Place / Microsurface**

## ▶ 2016 Decade of Investment Projects

- **SR 954 Trade City south resurfacing –  
Segment 570 / offset 0000 to Segment 700  
/ offset 2100**
- **SR 422 & SR 119 interchange ramps**

# **EQUIPMENT AUCTIONS**

## **Spring Auction**

**Fleet Management Division (Harrisburg)**

**Municipal: April 20, 2016**

**Open to Public May 24, 2016**

## **Fall Auction**

**Western Pennsylvania Training Facility  
(Cheswick)**

**Municipal: August 24, 2016**

**Public: September 27, 2016**

# ➤ 2016 Indiana County Outreach



**Seasons of  
Maintenance**

**QUESTIONS?**

