



CIRCUIT RIDER PROGRAM

Energy Efficiency in Local Government Operations

July 8, 2014

Liz Compitello

Delaware Valley Regional Planning Commission Research Analyst, Energy and Climate Change Initiatives ecompitello@dvrpc.org 215.238.2897



\$1.1 Million in energy cost savings identified for participating municipalities over 15 years

Average annual energy cost savings of \$11,581, and an average payback of 2.5 years

Institutionalized energy management best practices





DVRPC Circuit Rider Program

Focus on energy efficiency in municipal operations

Provide municipalities resources and tools needed to prioritize projects for cost-effectively reducing energy costs in their operations.

- Reducing Energy Costs in Municipal Operations Seminar Series
- 2. Streetlights and Traffic Signal assistance
- 3. Direct Technical Assistance

Circuit Rider: "any professional who travels a regular circuit of locations to provide services"



Challenge of Municipal Energy Planning

- Small local governments
- Limited staffing capacity
- Fiscal constraints
- Equipment vendor driven
- Lack of confidence in energy decisions
- Unsure where to start with energy management





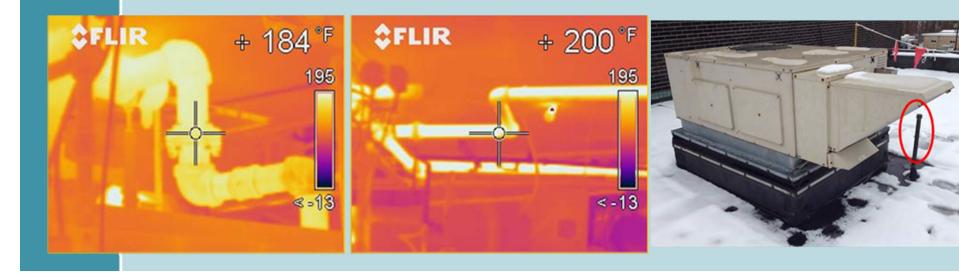
Direct Technical Assistance

Lessons learned from Direct Technical Assistance



Direct Technical Assistance

- One-on-one assistance for from DVRPC and a certified energy expert (Practical Energy Solutions)
- Work with munis to Identify and prioritize cost-effective projects to reduce energy costs.
- Provide assistance with implementing recommended projects





Our Partners

US EPA (Funder)



- Advisory Group
 - County Planning Depts. (EECBG projects)
 - The Reinvestment Fund
 - PA Southeast Regional Energy Office



- City of Philadelphia's Greenworks plan
- PA's Local Development Districts











Hire Technical Consultant

Select Municipalities

Collect Data + Perform Utility Bill Analysis

Hold On-site Scoping Meeting

Prioritize Assessment Work

Carry Out Energy Assessments

Present Energy Assessments

Hire Technical Consultant

Select Municipalities

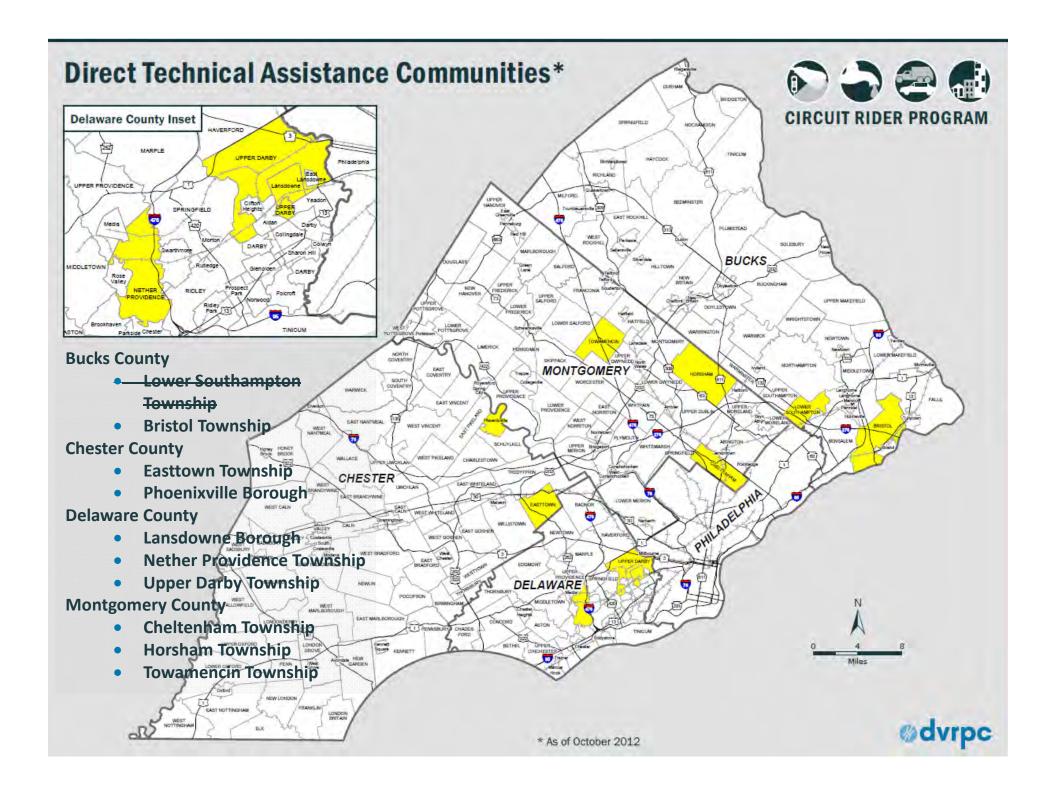
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Reflecting the Diversity of our Region's Municipalities

Municipality	Population (2010)	Median Household Income (2009 ACS)
DELAWARE		
Nether Providence	13,706	\$96,435
Lansdowne Borough	10,620	\$63,009
Upper Darby Township	82,795	\$52,572
CHESTER		
Easttown Township	10,477	\$128,984
Phoenixville Borough	16,440	\$61,153
MONTGOMERY		
Towamencin Township	17,578	\$75,128
Cheltenham Township	36,793	\$72,584
Horsham Township	26,147	\$81,888
BUCKS		
Lower Southampton Township	18,909	\$74,193
Bristol Township	54,582	\$47,693

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Bristol Township Pump Stations





High Wintertime Costs: Why?



• Findings:

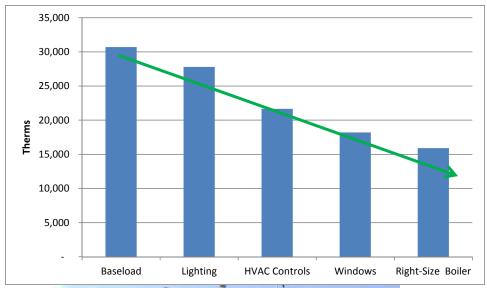
- \$50,000/year on electricity for 18 pump stations
- Some pump stations had notably higher wintertime electricity use, suggesting cause other than snow or rain
- High temps in pump house, despite low thermostat setting

Action:

- Replace thermostats, set to 55°
- Save \$3,600, pay off in matter of months

Upper Darby Admin Building

Planned approach maximizes savings





Findings:

- Verify prior energy assessment
- On-going energy measures by staff
 - Lighting
 - Steam System Repairs
 - Boiler right-sizing and natural gas conversion

Action:

- Continue energy measures
- Consider interior storms
- Save \$50,086 annually (2/3 reduction)
- Payback: less than 4 years

Lansdowne Borough Hall

• Findings:

- Lack of HVAC zoning requires 24/7 conditioning of space (<half is police)
- Energy intensive system

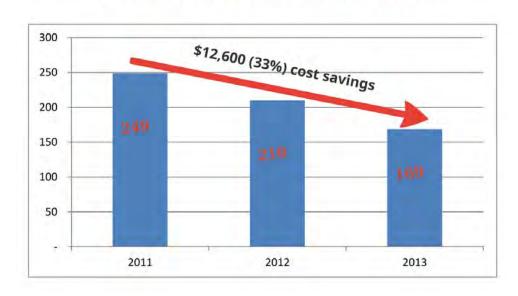
Action:

- Create zoning by instaling ductless splits in police's 24/7 areas
- Set back building temps at night/weekends
- Enable BAS to control RTU fans/pumps

Will cut electricity use by 28 percent and save \$7,454 annually.



Lansdowne Police/Admin EUIs





Thank you!

Liz Compitello, Research Analyst
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Transportation Conformity Demonstration: FY 2014 NJ TIP, DRAFT FY 2015 PA TIP, and Amendment to Connections 2040 LRP



Presentation

- Conformity Overview
- DVRPC Region
- Emissions Analysis Results
- Air Quality Trends



Transportation Conformity is a federal requirement to control emissions from on-road, mobile sources in designated air quality Non-attainment or Maintenance Areas



Non-Attainment Areas

 Region not meeting federal air quality standards (NAAQS)

Maintenance Area

- Area that previously was in non-attainment
- Must develop a maintenance plan, and implement steps to continue meeting the air quality standard



There are four major sources of emissions

- Stationary power plants, industrial boilers, etc.
- Industry petroleum refineries, cement kilns, etc.
- Non-Road Mobile Sources trains, planes, construction equipment
- On-Road Mobile Sources cars, trucks, buses
 - * Accounts for 33% NOx, 23% VOC, 9% PM_{2.5}

-Source: EPA Air Trends Report 2013



Conformity Test

Conformity is tested against SIP "Budgets"

- A budget is an emissions ceiling established in the SIP
- Projected emissions from projects in the TIP and Plan are compared to SIP budgets
- If projected emissions are less than budget, the TIP or Plan is conforming to the SIP



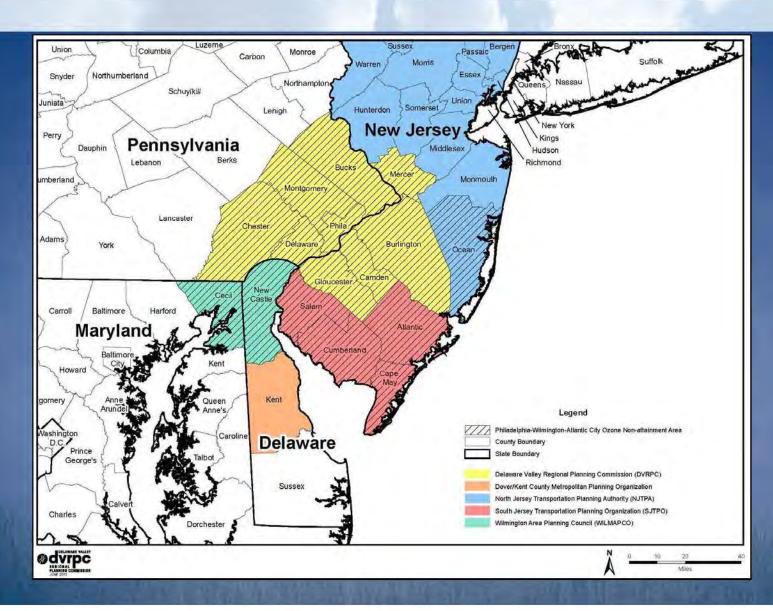
DVRPC Region

Multiple Non-attainment Areas in Multiple Jurisdictions

- Two States
- Region is in Non-Attainment for two NAAQS
 - > Ozone
 - —Entire region in one NAA.
 - $\triangleright PM_{2.5}$
 - —Two forms of the standard
 - -24-Hour
 - —Annual
 - —Region is in two different NAAs
 - —Philadelphia Wilmington (8 DVRPC Counties + NCC, DE)
 - —New York Northern NJ Long Island (Mercer County)

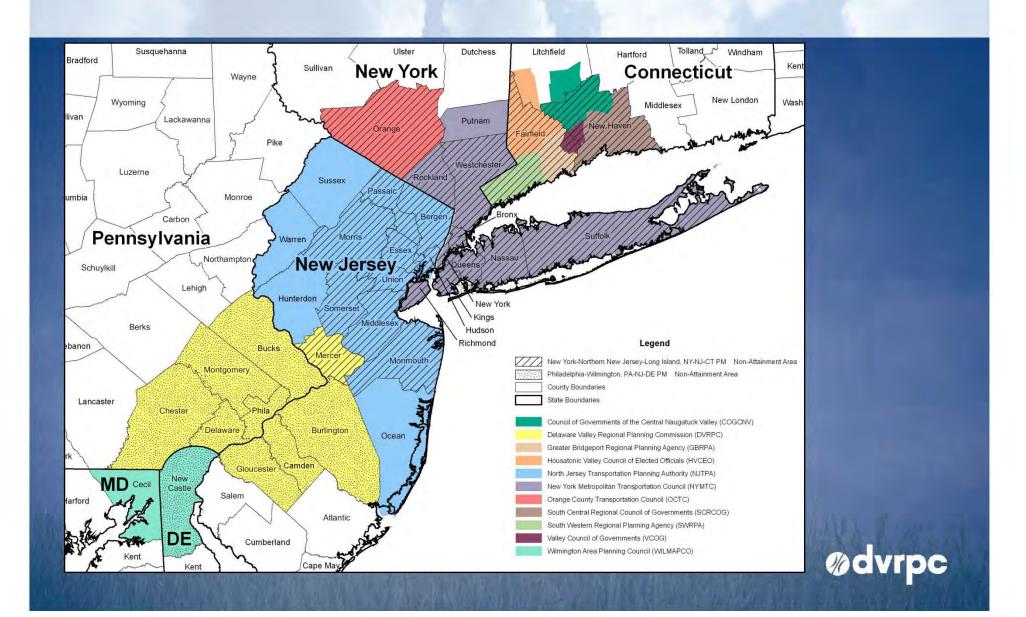


Ozone Nonattainment Area





PM_{2.5} Nonattainment Areas

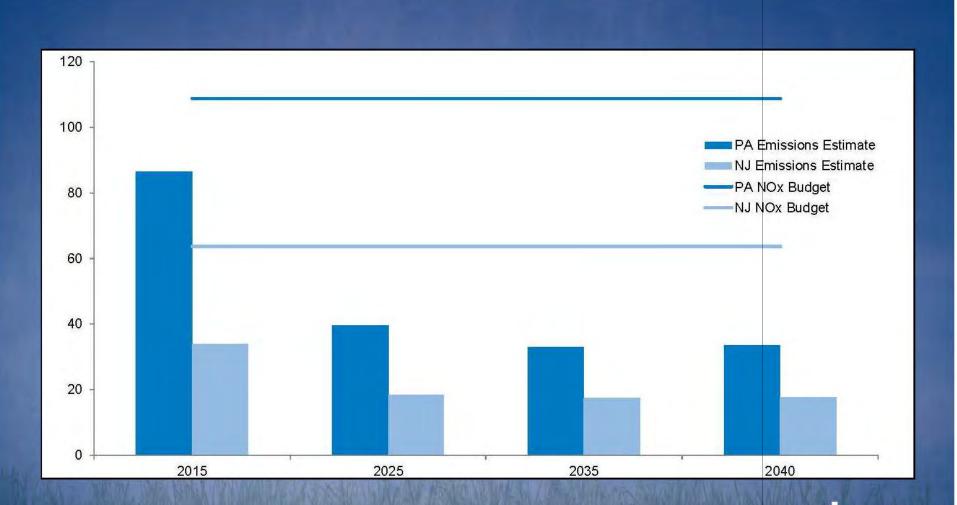


Conformity Triggers

- * A new FY 2015 PA TIP
- Amendment to financial plan for Connections
 2040 LRP that adds regionally significant and
 nonexempt projects in PA
- Since no regionally significant projects are being added to the FY 2014 NJ TIP, DVRPC is reaffirming conformity finding from 2013.

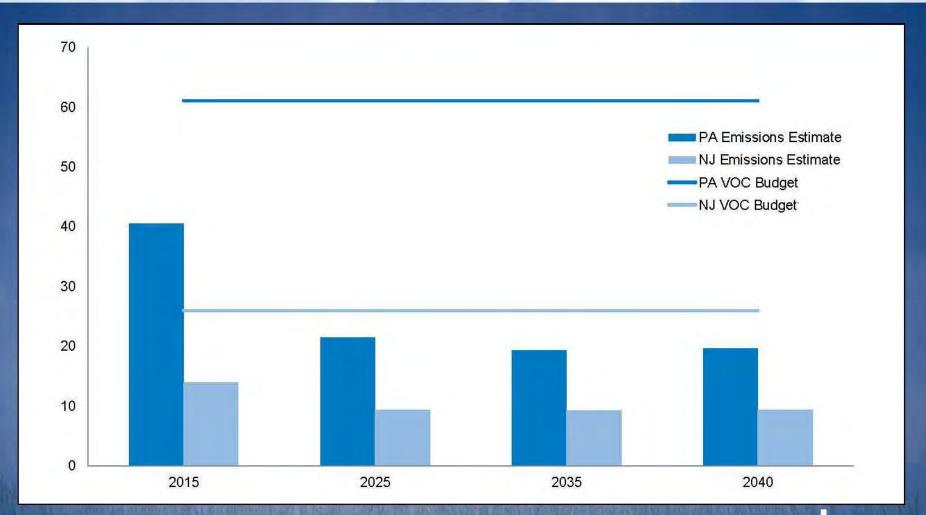


NOx Emissions Results



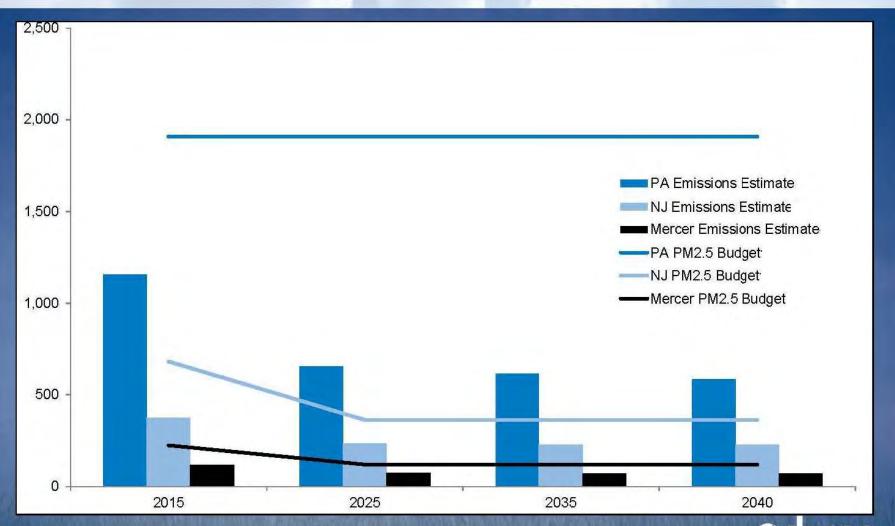


VOC Emissions Results



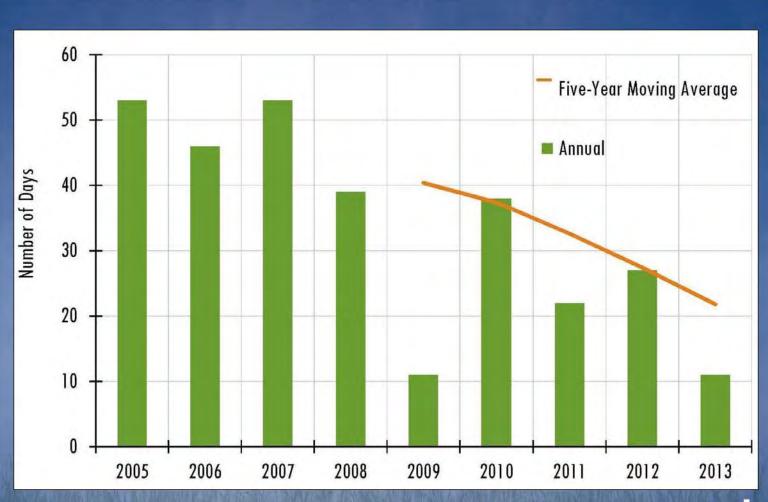


PM_{2.5}Emissions Results



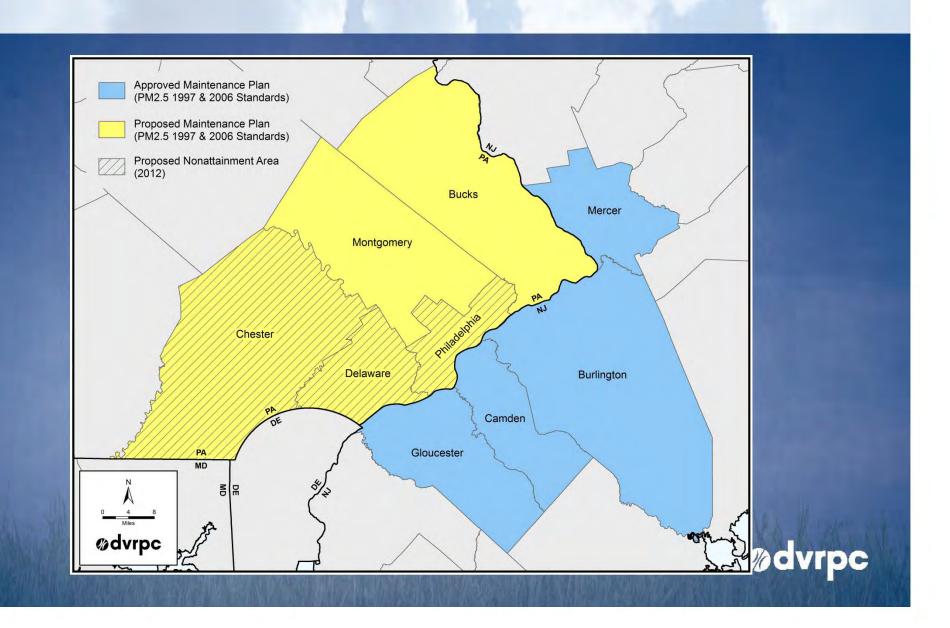


Regional Air Quality Trends





Regional Air Quality Trends



Emissions Analysis Results

PA and NJ TIPs and the Connections 2040 LRP

- "Conform" to the corresponding SIPs and the current final conformity guidance under CAAA including all applicable NAAQS requirements
- Transportation investments identified in the TIPs and the Plan do not impede efforts to attain NAAQS

Conformity Results

- ❖ Meet the 8-hour ozone, daily and annual PM_{2.5} SIP requirements
- Replaces the existing conformity finding of July 2013



Public Comment

Public Comment Period

- ❖ June 16 through July 18, 2014
- ❖ One public meeting (June 26)

Comments are accepted:

- **♦** At Public Meeting
- ❖Via email
- Online
- ❖Via mail and fax

To view documents or submit comments, please visit www.dvrpc.org and search conformity

Requested Action

That the RTC recommend that the DVRPC Board adopt the conformity findings of *Connections 2040* LRP and PA and NJ TIPs for Ozone, PM_{2.5} and CO in the DVRPC planning area

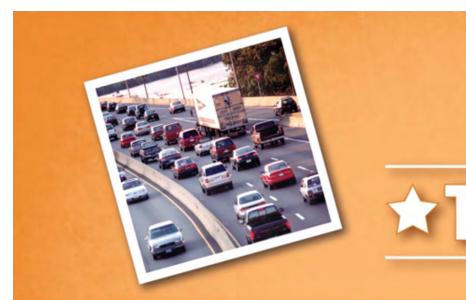


Questions?

Thank you

Sean Greene
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TIP TRANSPORTATION IMPROVEMENT PROGRAM

Draft DVRPC FY2015 TIP for PA

RTC / July 8, 2014





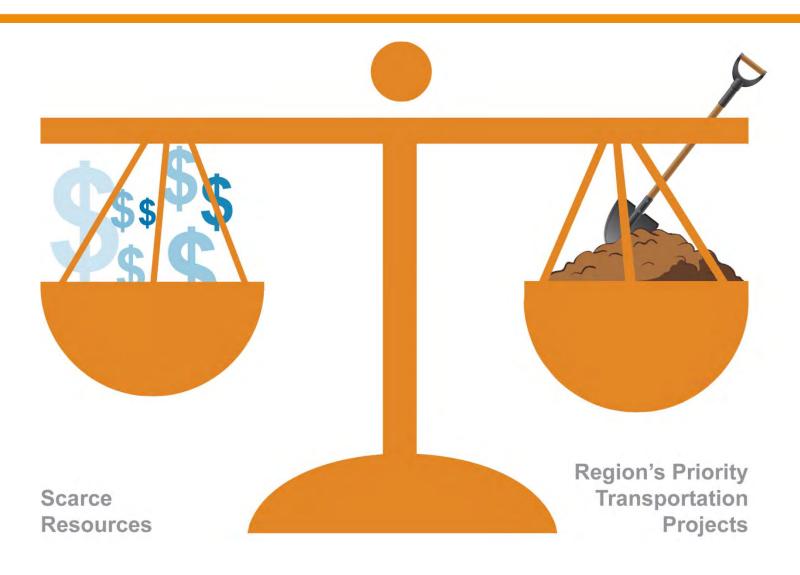


Transportation Improvement Program

Developing and maintaining the
Transportation Improvement Program
is what makes the region eligible
to receive and to spend
federal transportation dollars.

PA and NJ TIP = \$6.7 Billion over 4 years

Regional Decision Making





What is the TIP?

- The near-term expression of the Long Range Plan
- Agreed upon list of priority projects that are regionally significant and all other projects seeking federal funds. DVRPC TIP also includes state funded capital improvements.
- Not a guarantee of funds or implementation
- Not a grant of money, but based on reimbursements
- Financially constrained program
- REQUIRED by federal legislation

Draft Version

Draft DVRPC FY 2015-2018 TIP for PA

Pennsylvania - Highway Program (Status: TIP)

Montgomery

MPMS# 16484 Edgehill Road Bridge Over Old York Road SR:2034

LIMITS: Over Old York Road Est Let Date: 4/23/2015

MUNICIPALITIES: Abington Township

IMPROVEMENT: Bridge Repair/Replacement FC: 17 AQ Code:S19

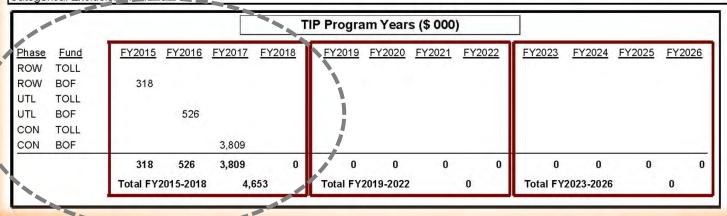
DVRPC PLANNING AREA: Developed Community IPD: 1

PROJECT MANAGER: EE/J. Detora CMP: Not SOV Capacity Adding CMP Subcorridor(s): 14E

This project involves rehabilitating or replacing the bridge carrying Edgehill Road over Old York Road. The work includes replacing the deck of the bridge and painting and the replacement of approach curb and sidewalk.

The bridge carries a 2 lane road with sidewalks over a 4 lane road with sidewalks and a mountable median. The single span, 116'-long built-up steel through girder bridge is supported on horizontally scored concrete abutments with stepped modern style pilasters.

A final alternative for bridge rehabilitation or replacement is determined upon federal National Environmental Policy Act (NEPA) or state Categorical Exclusion clearence



Multi-year, multi-modal program.

Best estimate of project schedule and costs.

Four-year program, updated every other year.



Draft FY2015 TIP for PA

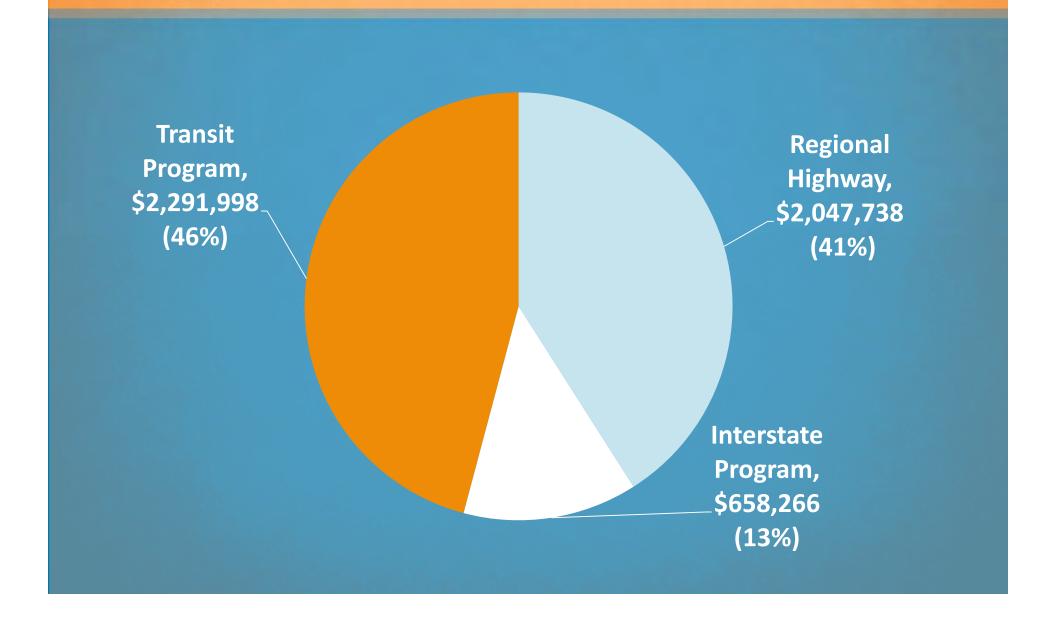
 286 Regional Highway projects totaling \$2 Billion

 20 projects funded by \$660 million provided by the Statewide Interstate Management Program (IMP) for I-95 and I-76 Reconstruction projects

32 Transit projects totaling \$2.3 Billion

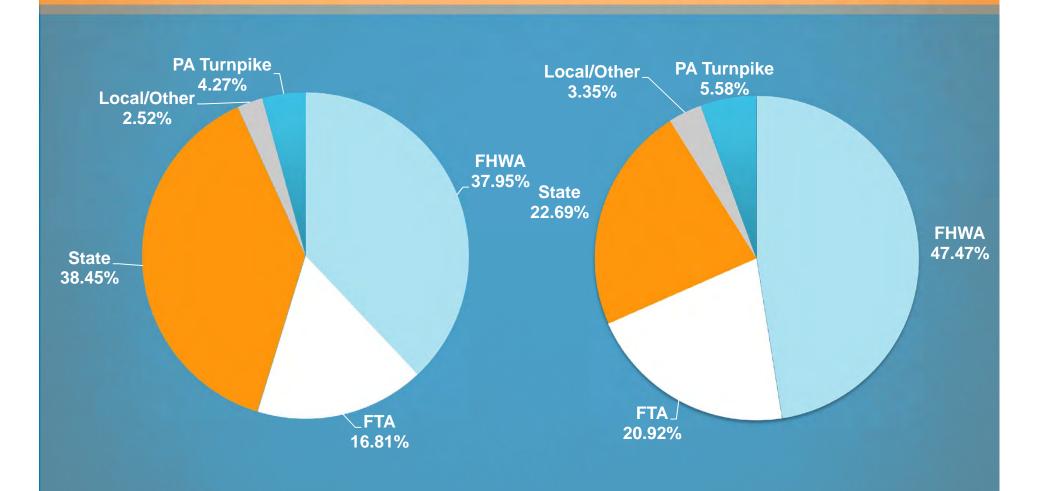


Cost Summary By Program





Sources of Funding to DVRPC Region

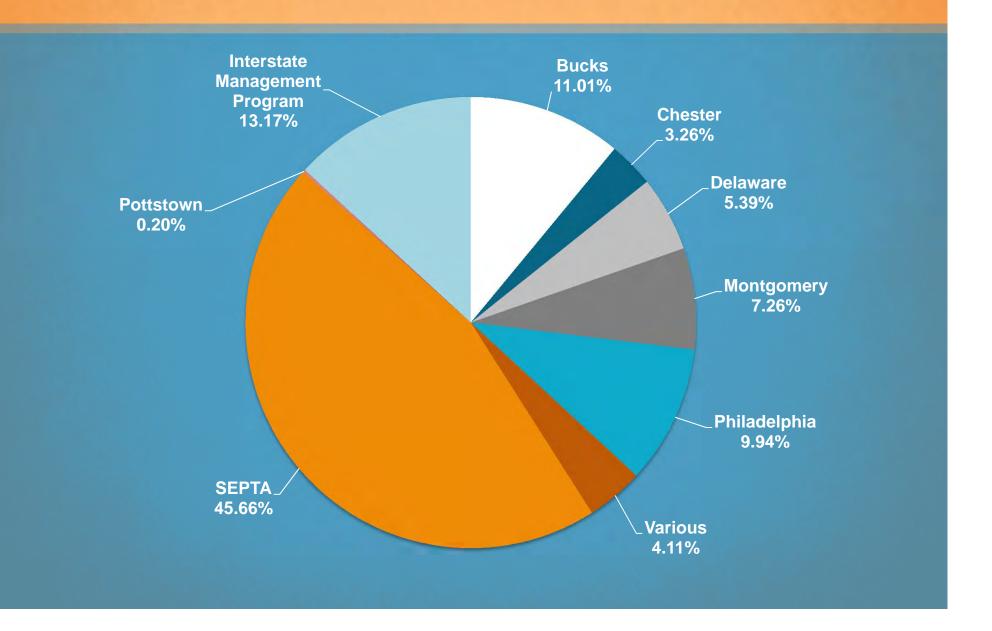


Draft FY2015 TIP

Current FY2013 TIP



Tunds by County/Operator





- MAP 21 Federal Transportation Authorization
 - New fund categories
 - Performance factor emphasis
 - Project evaluation criteria revised
- Act 89
 - Additional PA state funds
 - No "Illustrative Unfunded" list of projects
- More Statewide programs

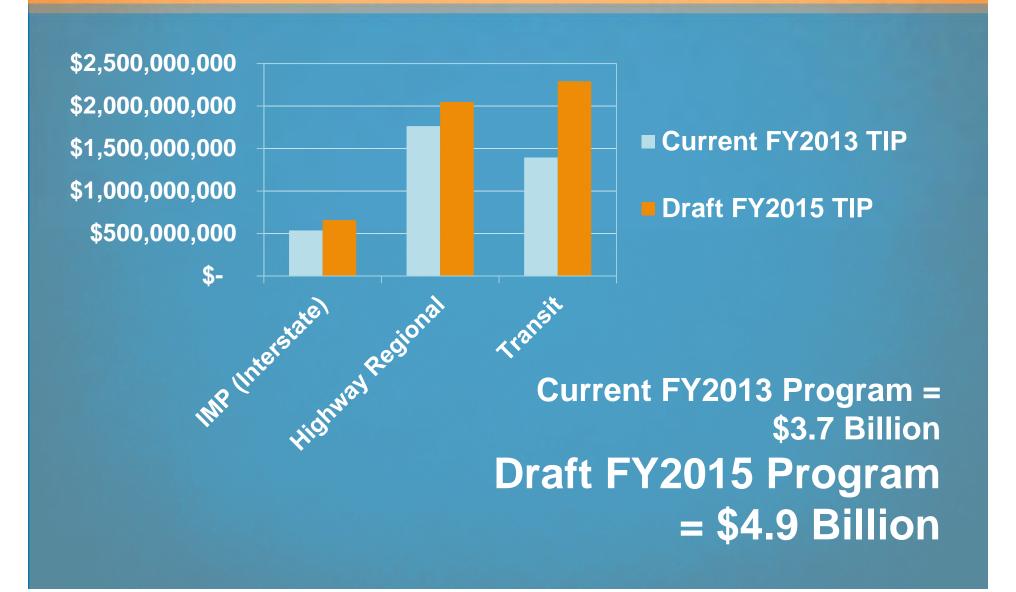


New Project Evaluation Criteria





Growth in Programs - \$1.2 Billion





What's In the Highway Program?

- Major projects that have been delayed due to insufficient fund are now able to advance, including
 - Reconstruction of US 1 Bucks
 - Paoli Transportation Center/Darby Road Bridge Connection ChesCo
 - 322 Reconstruction and Widening DelCo
 - US 422 Bridge Across the Schuylkill River MontCo
 - 7 Bridges over I-676/Vine Philadelphia
- No "Illustrative Unfunded" list
- Municipal Bridge Line Item
- Interstate Management Program (IMP)
 - \$660 million for reconstruction of I-95, I-76 bridges
 - I-95-322 Interchange in DelCo moved into 3rd four years
 - Flex funds to increase transit service to provide congestion mitigation



What's in the Transit Program?

- Rail Station Program, including
 - Levittown Station Bucks County
 - Exton Station Chester County
 - Paoli Transportation Center Chester County
 - Villanova Station Delaware County
 - City Hall Station Philadelphia
- Bridges
- Elwyn to Wawa Service Restoration
- Rail Car, Locomotive, and Trolley purchases
- Substation Repair/Replacement
- Building and Equipment Repairs



Examples of Project Categories (for highway funded projects)

- Bridge Replacement/Rehabilitation 38%
- Roadway Reconstruction/Restoration 13%
- Highway New Capacity 10%
- Interchanges/Intersections, Signals, ITS 13%
- Bicycle/Pedestrian/Streetscapes 4%
- PA Turnpike Interchange (includes TPK\$) 16%
- Transit Flex 3%
- Other; CMAQ Competitive Program; Transportation Management Associations, Mobility Alternatives and Share-A-Ride programs; Reserve Line Items – 3%



Public Comment on Program

- Public Comment Period
 - May 30, 2014 June 30, 2014
- Meeting/Webinar held June 26 at DVRPC Offices, 4-6 PM
- During Comment period over 270 submissions of comments were received on over 360 "Issues"
- All documents on website: www.dvrpc.org/tip



Comments and Responses

- "Index of Comments" summary and commentor
- Comments
 - Each "Issue" has an "Item ID"
 - A's are from Individuals
 - B's are from our DVRPC "Planning Partners"
 - C's are from Agencies or Organizations
- Responses incomplete
- Recommended Changes table of changes



Comments and Responses

- Support for additional funding to "The Circuit" regional bike network and the \$1 million CMAQ added for next round of TAP - 185
- Support for Municipal Bridge Line Item 35
- Support for Schuylkill River Swing Bridge 30
- Design Concerns
- Support of projects
- Opposition to projects
- Requests for new projects
- Requests that projects advance



Schedule Adjustments and Cost Restructuring (pgs. 1-3)

- General
 - Minor shifts of small preconstruction phases.
- Minor adjustment of cash flow of 5 projects in order to accommodate \$1.3 million Osborne bridge inadvertently omitted.
- Acknowledge "Pro-Rata" (e.g. 80%/20%, 80%/15%/5% fund splits) and fund-type revisions will be required for projects that were programmed with Act 26/179 funds. Local project may need to be increased in some cases. DVRPC programmed state highway funds on non-state bridge projects as there are more bridges than can be accommodated with just eligible state and federal funds, especially for non-state bridges. MAP-2 NHPP funds also have a more restricted use. Adjustments will be made as modifications to the FY2015 program.
- Moving funds between HSIP eligible projects and HSIP Line Item.



Highway Project Additions (Pages 3-5)

- Add in \$1.3 million Osborne Road Bridge inadvertently omitted.
- North Delaware Avenue Extension earmark funded projects
- Note 10 recently selected and approved TAP (Transportation Alternative Program) projects in the TAP Line Item to be drawn down when ready for authorization of funds
- New Phase 2 HSIP Breakout Project for Henry Avenue to be included in the line item(likely to draw down in later fiscal years)
- Add 8 resurfacing projects with "SPIKE" funded CON in FY15 which were newly added to current program for FY14 and FY15.
- Add 6 previously approved ARLE projects back into program funds not encumbered.



- **Highway Project Removals (Page 6)**
 - Remove Baltimore Pike project project has been advertised!
 - Remove 16 Round 3 ARLE projects funds have been encumbered



Transit Project Cost Increase/Decrease (page 7)

- Cost Increase and advance into first 4 years
 - Advance \$24 million to the first-three years (FY15-17) of SEPTA's Paoli Transportation Center (MPMS #60574) to advance Phase 1 of project for ADA improvements. Note contributions by Amtrak and PennDOT Bureau of Public Transit for Phase 1.
- Cost Decrease
 - Reduce SEPTA reserve Line Item to accommodate increase for Paoli Transportation Center



- **Project Scope and Description Revisions**
 - Update project limits
 - New/updated project description
 - Minor change in project's title
- Technical Corrections and "As Needed" Corrections for Final TIP Document

Responses....



THANK YOU



You know who you are!!!



Proposed Action

Adopt the DVRPC FY2015 Transportation Improvement Program (TIP) for Pennsylvania (FY2015-FY2018) with the proposed Recommended Changes as the region's official selection of transportation projects for federal funding





215-238-2938/eschoonmaker@dvrpc.org







fostering sustainability, equity and innovation

Amended Transportation Investments



AMENDED TRANSPORTATION INVESTMENTS

- Addresses additional funding from Act 89
- Updates the Financial Plan revenue assumptions, allocation to funding categories, and major regional projects
- Products: Revised Chapter 5 and Funding the Future pamphlet





FUNDING OUTLOOK JULY 2013



ROADWAY FUNDING

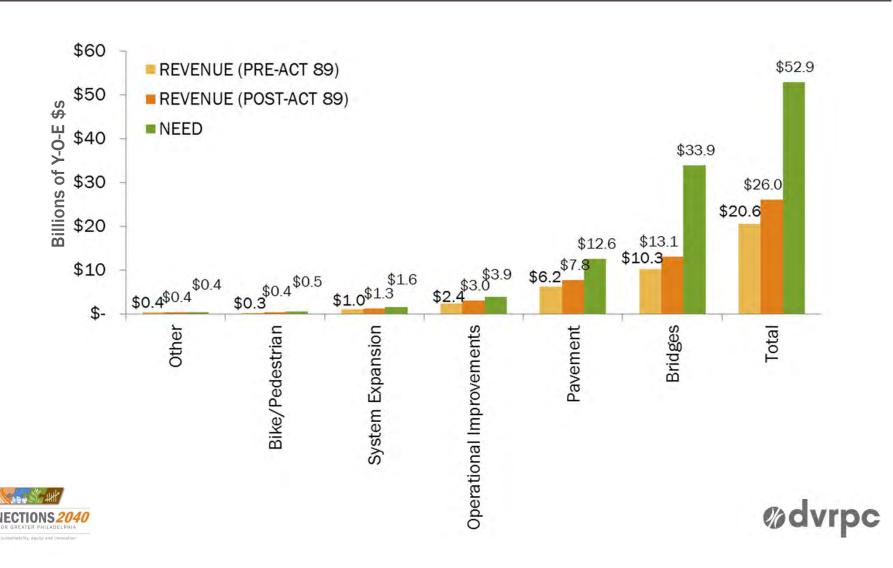
CATEGORY	CURRENT % ALLOCATION	CURRENT \$ ALLOCATION	ACT 89 % ALLOCATION	ACT 89 \$ ALLOCATION	ADDITIONAL FUNDING
Bridges	50%	\$10.3 B	50%	\$13.1 B	\$2.8 B
Pavement	30%	\$6.2 B	30%	\$7.8 B	\$1.6 B
Operational Improvements	11.5%	\$2.4 B	11.5%	\$3.0 B	\$0.6 B
System Expansion	5%	\$1.0 B	5%	\$1.3 B	\$0.3 B
Bike/Pedestrian	1.5%	\$0.3 B	1.5%	\$0.4 B	\$0.1 B
Other	2%	\$0.4B	2%	\$0.4 B	-
TOTAL	100%	\$20.6 B	100%	\$26.0	\$5.4 B

Totals may not add up due to rounding





ROADWAY REVENUE VS. NEED



NEW ROADWAY INVESTMENTS

- Additional \$2.8 Billion for bridges and \$1.6 Billion for roadway reconstruction
- Reconstruction of I-95 from Queen Street to Girard Point Bridge
- Reconstruction of US 422 from Stowe to Sanatoga
- Reconstruction of US 30/Coatesville-Downingtown Bypass from Exton Bypass to Reeceville Road, complete partial interchanges, and congestion reduction strategies
- Construct an additional 40 miles of The Circuit trail network



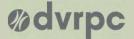


TRANSIT FUNDING

CATEGORY	CURRENT % ALLOCATION	CURRENT \$ ALLOCATION	ACT 89 % ALLOCATION	ACT 89 \$ ALLOCATION	ADDITIONAL FUNDING
Vehicles	33%	\$4.2 B	40%	\$7.1 B	\$2.9 B
Rail Infrastructure	32%	\$4.0 B	26.5%	\$4.7B	\$0.7 B
Stations	14.5%	\$1.8 B	15.7%	\$2.8 B	\$1 B
Operational Improvements	5%	\$0.6 B	3.4%	\$0.6 B	-
System Expansion	0%	\$0.0 B	3.1%	\$0.6 B	\$0.6 B
New Starts Funding	-	-		\$0.4 B*	\$0.4 B*
Other	15.5%	\$2.0 B	11.3%	\$2.0 B	-
TOTAL	100%	\$12.6 B	100%	\$17.8 B	\$5.2 B

Totals may not add up due to rounding
* Non-federal formula funding, Not included in Total





TRANSIT FUNDING

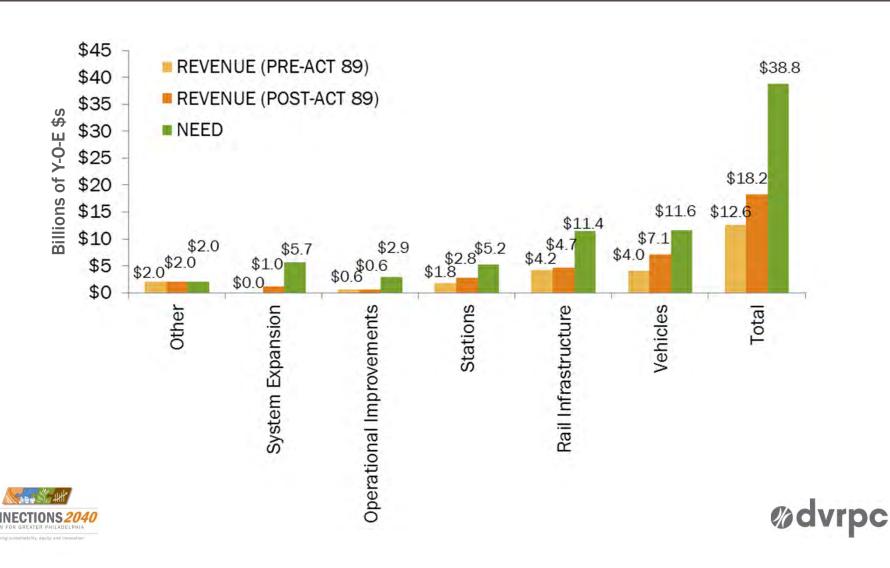
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TOTAL	100%	\$12.6 B	100%	\$17.8 B	\$5.2 B

Totals may not add up due to rounding
* Non-federal formula funding, Not included in Total





TRANSIT REVENUE VS. NEED



NEW TRANSIT INVESTMENTS

- Additional \$4.6 Billion to rebuild the transit system:
 - \$1 Billion for Stations; \$700 Million for Rail Infrastructure; \$2.9 Billion for Vehicles
- Purchase locomotives, bi-level rail cars, Silverliner VI fleet, and trolley fleet, and rehabilitate Broad Street Subway fleet
- Extend Elwyn Line to Wawa
- Extend rail service to King of Prussia
- Roosevelt Boulevard Better Bus





PUBLIC COMMENT

- Public comment period from June 16 to 5 PM on July 18
- Advertised through legal notice and by e-mail blast. Documents available on DVRPC website and offices, and regional libraries
- Comments can be submitted:
 - In person at the June 26 public comment meeting
 - On-line
 - E-Mail
 - Fax
 - Mail
- 5 Comments received to date. Complete set of comments will be submitted to the Board at the July 24 meeting.





SUMMARY OF COMMENTS RECEIVED

- Remove 5% cap on roadway system expansion and include US 30 Bypass
- Better integration of both transit fares and passenger information
- Continued investment in transit, bike, and pedestrian facilities





ADDITION TO THE UNFUNDED VISION PLAN

- Penn's Landing Access and Community Improvement Project
 - A multimodal bridge structure between Chestnut and Walnut Streets spanning I-95 and Columbus Boulevard, and extending from Front Street to the river's edge
 - An extension of the South Street pedestrian bridge from I-95 to the southern end of the Penn's Landing marina basin
 - A two-mile multi-use, pedestrian and bikeway adjacent to Columbus Boulevard, from Washington Avenue to Spring Garden Street





REQUESTED ACTION

Recommend adoption of the amended transportation investments for the Connections 2040 Plan for Greater Philadelphia, the region's long-range transportation plan.







WWW.DVRPC.ORG/CONNECTIONS2040

Thank
You
for all
your
work

Michael Boyer mboyer@dvrpc.org 215.238.2848

ødvrpc





"Creating the Airport
OF THE FUTURE
for OUR FUTURE"

Delaware Valley Regional Planning Commission

Michael J. McCartney Airport Engineering Manager

Presented to:
Regional Technical Committee

July 8, 2014



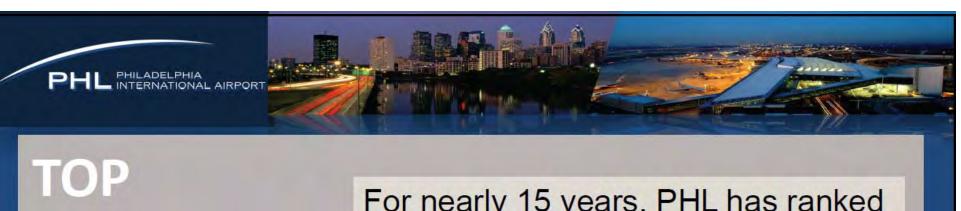
Philadelphia International Airport is a Major Economic Engine

Generating more than \$14.4 billion a year for the region's economy





Supporting more than 141,000 jobs in the region



For nearly 15 years, PHL has ranked among the TOP 10 most delayed airports in the U.S. Source: FAA ASPM

PHL was ranked 5th in the nation in total delays in 2011.

Source: FAA ASPM



IMPACT ON NATIONAL AIRSPACE SYSTEM



According to the FAA, "The delays at Philadelphia affect the national airspace system. These delays impose substantial costs in time and money for passengers and airlines, cargo shippers and for other users of the air transportation system."

(FACT 2 Report, 2007)



AIRFIELD CONSTRAINTS

- ❖ Delays/Constraints:
 - Insufficient Primary Runway Separation
 - Inadequate Secondary Runway Length
 - o Insufficient Taxiway/Taxilane Arrangement





INEFFICIENT TERMINAL DESIGN/LAYOUT



Aging Facilities

Several terminals/concourses are more than 40 years old and lack modern design standards (LEED certification, low ceilings, minimal natural lighting, maintenance heavy, and narrow public corridors)

Connectivity/Land Constraints

"Single" taxilane design between pier concourses creates choke points/congestion

Terminal complex spans almost two miles but lacks efficient/automated people mover system





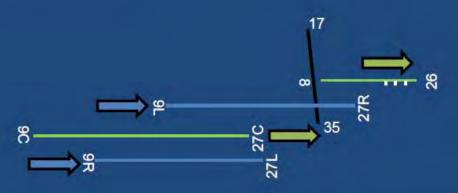
PROGRAM OBJECTIVES - AIRFIELD

Airfield expansion to:

- Reduce existing delay/passenger wait times
- Improve on-time performance
- Provide additional capacity for future growth
- Dual independent arrival and departure streams in all weather conditions
- Runway/taxiway configuration to enhance ground traffic flow







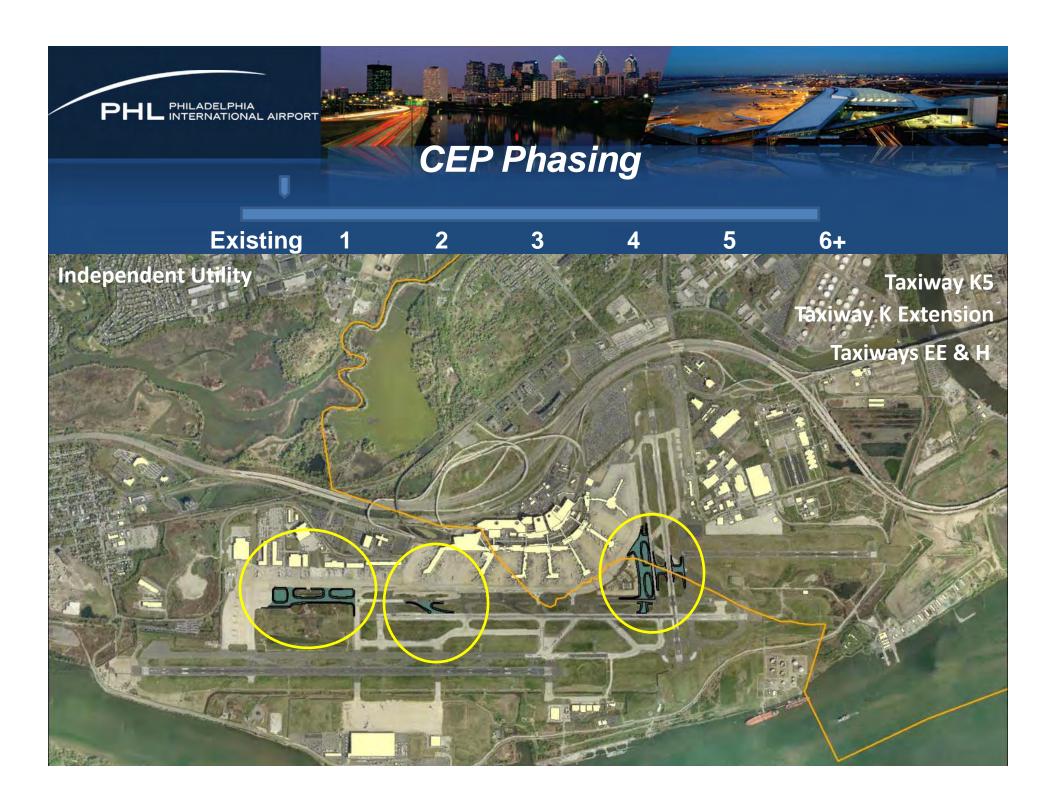


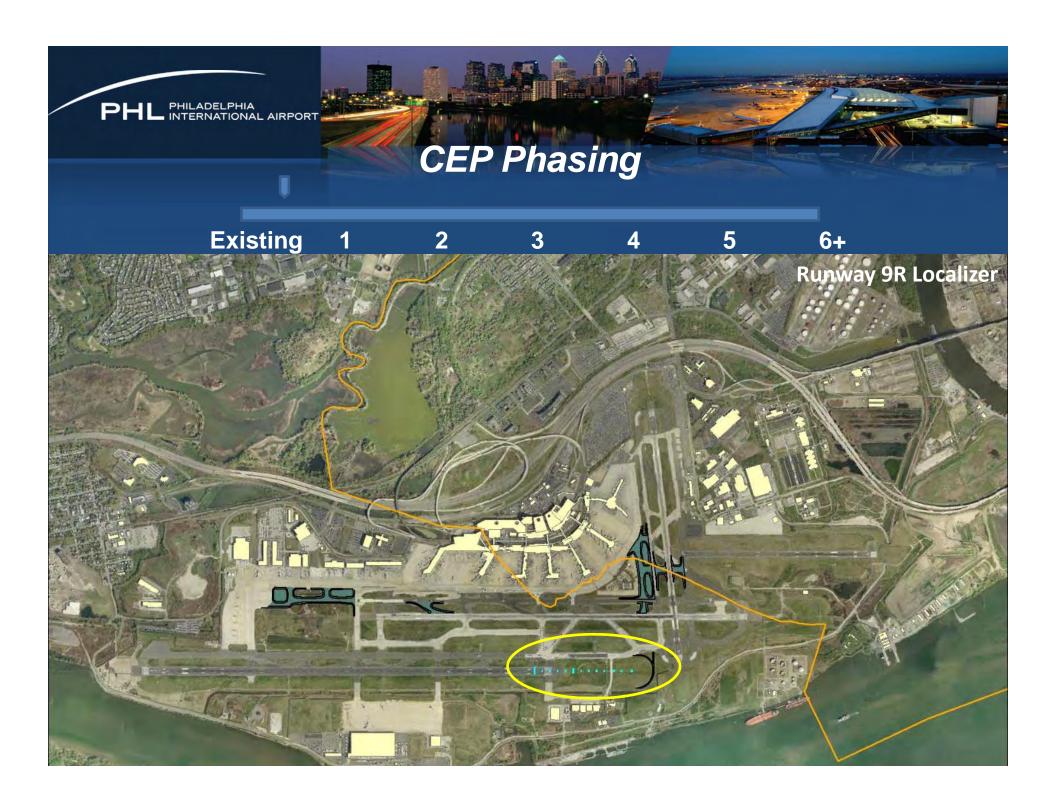
- Ground Transportation Center
- Renovated Terminals
- Remote
 Concourses

- Automated People Mover (APM)
- Airfield Improvements













































Tentative Agreement with Tinicum Township

- ❖ If approved, the agreement in principle would settle four pieces of litigation between the City of Philadelphia, Delaware County, Tinicum Township, and Interboro School District
- Agreement in principle allows the Airport to move forward with the CEP without the need to acquire 72 Tinicum Township homes and relocate approximately 300 Tinicum residents







Questions?







Pennsylvania Regional Traffic Signal Retiming Initiative Project



Laurie Matkowski Manager, Office of Transportation Operations Management

Regional Technical Committee Tuesday, July 8, 2014

Development of the Regional Signal Retiming Project



- Concept discussed for years
- TIP Line Item
- Collaboration with Central Office to Initiate development
- Discussions with District 6
- Discussions with County Planning Commissions
- DVRPC Contracts, TIP, CMP, LRP at table from beginning

Financial Support for the Regional Signal Retiming Project

- DVRPC's Connections 2040 Long Range Plan
 - Transportation Investment Priorities
 - Preserve and maintain existing transportation system and rights of way
 - Improve the operation of existing transportation facilities
 - Increase the capacity of existing multimodal transportation system, limiting the addition of through travel lanes
- 100% CMAQ funded through the TIP
- Contract through PennDOT
 - Open Ended, set up for multiple years
 - Flexible scope to meet needs of each corridor



Regional Signal Retiming **Project Process**

Project Sponsors @dvrpc



Project Team











Contacts

Lawson

Contractor PM Preston Hitchens Taylor Wiseman Taylor DVRPC Laurie Matkowski

PennDOT Ashwin Patel

- Choose Corridor
- Meet with Stakeholders Throughout Process
- MOU and Concept of Operations
- "Before" Study
- Rapid Field Assessment
- PennDOT Compliance Review
- Analysis, Recommendations, and Implementation
- "After" Study
- Performance Evaluation



Regional Signal Retiming Project Agreements

- Memorandum of Understanding
 - Outlines purpose and partners
- Concept of Operations
 - Day-to-day operations, but NO Upgrades
 - The Municipality to give free access to all equipment
 - Timings will be implemented at no cost to the Municipality
 - Future enhancements
 - Terms



Regional Signal Retiming Project Completed, Current, & Future Corridors

Completed

- SR 0100, West Whiteland Township (Rt. 30 EB off-ramp to Shoen Road)
- SR 0320, SR 0001, Springfield Road: Marple & Springfield Townships, Delaware County (Springfield Road to Country Club Drive)
- Baltimore Pike at SR 0476 Ramps, Nether Providence Township, Delaware County
- SR 0030, SR 0010, West Sadsbury Township, Chester County (3 intersections)

Corridors in Progress

- West Valley Road (T-421), Treddyfrin Township, Chester County (2 intersections)
- SR 0340 at Route 30 Bypass, Caln Township, Chester County (2 intersections)
- SR 0030, Caln, Downingtown, East Caln Townships, City of Coatesville
- SR 0029, SR 0023, Phoenixville Borough, Chester County

Future Corridors

- SR 0611, Montgomery County, various municipalities
- SR 0030, Lower Merion Township

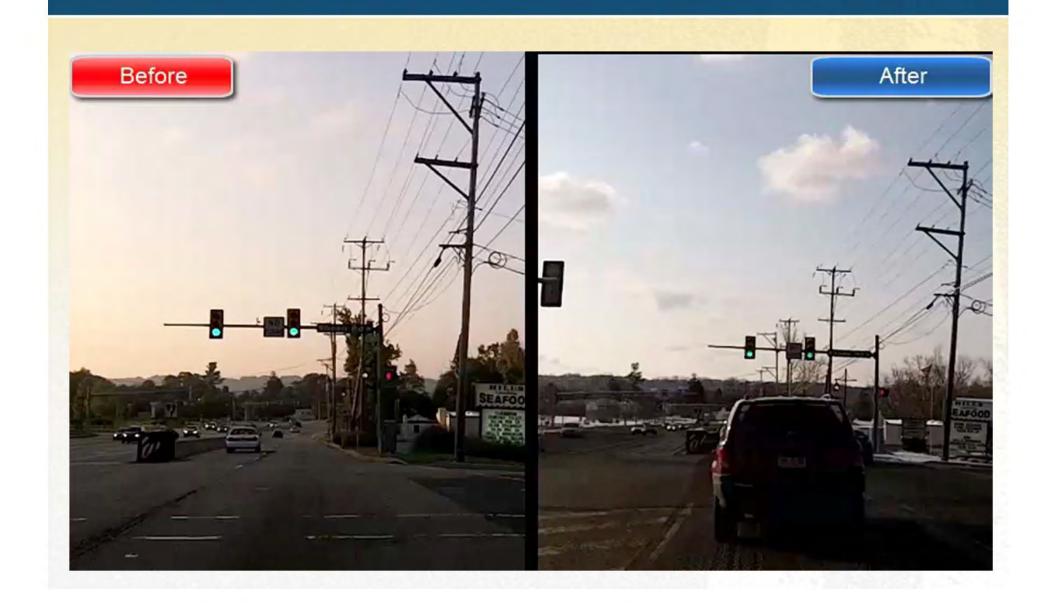


Regional Signal Retiming Project Overall Results

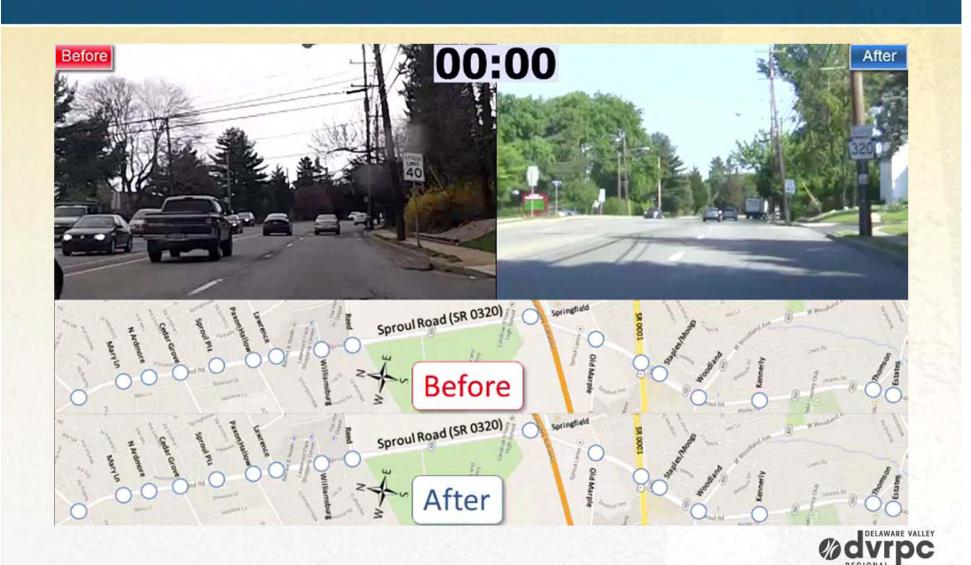
- Total Delay... 15% to 58%
- Number of Stops... 23% to 69%
- Average Speed... 11% to 55%
- Total Travel Time... 8% to 41%
- Fuel Consumed... 6% to 14%
- Unserved Vehicles... 25% to 100%



Route 0100 Before vs. After



Route 0320 Before vs. After



Regional Signal Retiming Project Sustainability

- RTC to help ensure continued financial support
- Staff continues to provides leadership
- Work with goals of PennDOT & new legislation
- Continue to support this project through the revised Transportation Operations Master Plan
- New signals in the corridor to comply with MOU and ConOps
- Work hand-in-hand with ARLE and Corridor Modernization Projects



Regional Signal Retiming Project Summary



- Traffic signal operations can be improved!
- Success depends on collaboration, cooperation, coordination, and consensus building







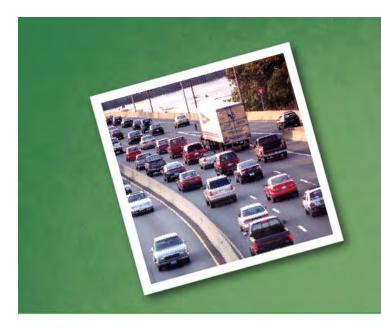


Thank You!

Contact Information

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215.238.2853





July 2014

TIP A-C-T-I-O-N-S



New Jersey (FY2014-2017) Pennsylvania (FY2013-2016)







* Add a Project Back into the TIP- NJ

- Route 30, and Evesham Road Intersection Improvements, a. **Camden County**
 - ❖ Amend the TIP for PA by adding a \$6,805,000 NHPP funded project back into the TIP for FY14 construction.
 - ❖ Funds will address safety and operational deficiencies of the Route 30 and Evesham Road (CR 544) intersection in Magnolia Borough by adding left-turn lanes, a new traffic signal, new signs, new curbs and sidewalks, as well as reconstructed pavement, drainage improvements, and the relocation of utilities.
 - ❖ US Route 30 is a major east-west highway, and Evesham Road (CR 544) carries a significant volume of traffic to and from the PATCO High Speed Line's Ashland Station. This intersection currently ranks 15th out of 100 intersections with the most severe accident history due to lack of any left turn lanes on US 30.

NJ14-32: Route 30, Evesham Road Intersection Improvements Tavistock CHERRY HILL Woodcrest Lawnside E Charleston Ave Barrington Ellis Ave Magnolia VOORHEES Philadelphia Burlington Somerdale NJ14-32 Camden
Lauret Linden Gloucester Stratford Hi-Nella 0.25 Miles

Ashland





PROPOSED-NJ

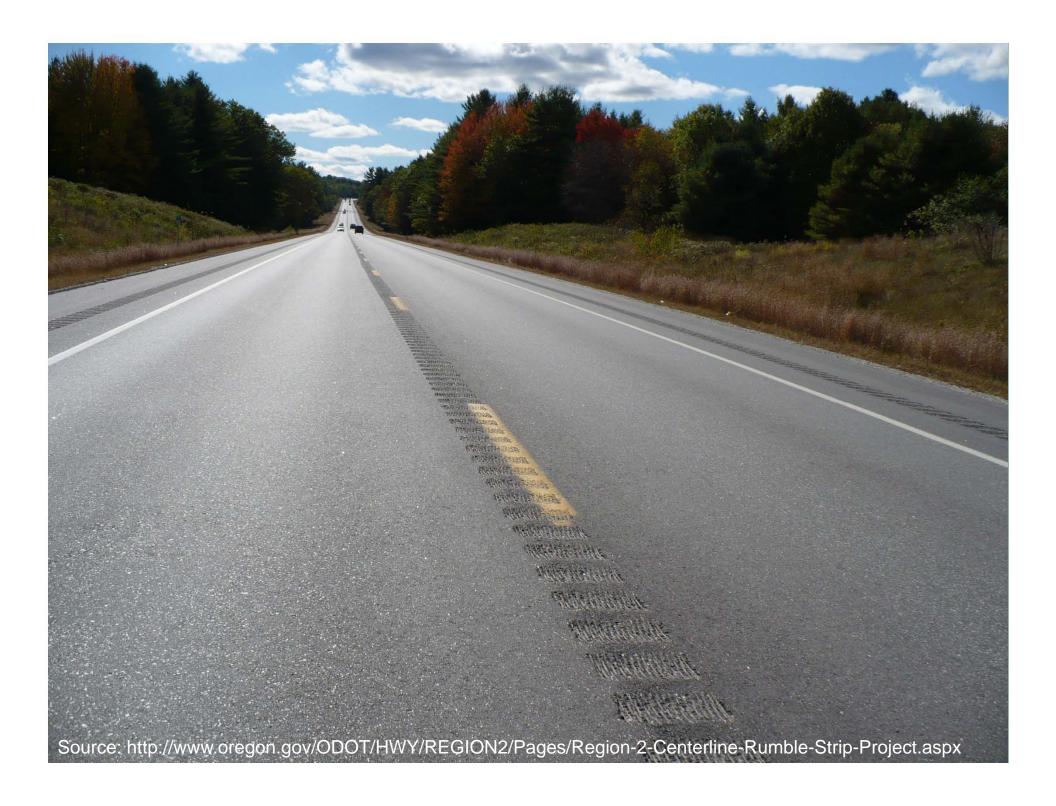
a. Route 30, and Evesham Road Intersection Improvements, Camden County

Amend the TIP for NJ by adding a \$6,805,000 NHPP funded project back into the TIP for FY14 construction.



Add a Proposed Project to the Line Item - NJ

- b. Burlington County Centerline Safety Enhancement Project, 2014, **Burlington County**
- * Amend the TIP by adding a new project, Burlington County Centerline Safety Enhancement Project, 2014 to the TIP in the amount of \$1,750,000 HSIP funds for construction in FY14, as a component of the Local Safety/High Risk Rural Roads Program (DB# 04314).
- Funds will provide for the construction of approximately 150 miles of centerline rumble strips on Burlington County roadways throughout the county.
- The primary purpose of centerline rumble strips is to prevent cross-over crashes or headon collisions on two-lane roadways.





PROPOSED-NJ

b. Burlington County Centerline Safety Enhancement Project, 2014,
 Burlington County

Amend the TIP for NJ by adding a new project, Burlington County Centerline Safety Enhancement Project, 2014 to the TIP in the amount of \$1,750,000 HSIP funds for construction in FY14, as a component of the Local Safety/High Risk Rural Roads Program (DB# 04314).



THANK YOU



