

FY2021 TIP for PA Proposed Adoption of the Draft DVRPC FY2021 TIP for PA (FY21-FY24)



Transportation Improvement



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What is the TIP?

- Financially constrained infrastructure program
- Near-term expression of Long-Range Plan
- Multi-modal improvements
- Best estimate of project schedules and costs
- Not a guarantee of funds or implementation



Transportation Improvement Program

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Transportation Improvement Program

The TIP represents the region's federal & state funded priority transportation projects

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

PA and NJ TIP = \$7.1 billion over 4 years



DVRPC FY2021-2024 TIP for PA

Pennsylvania - Highway Program (Status: TIP)

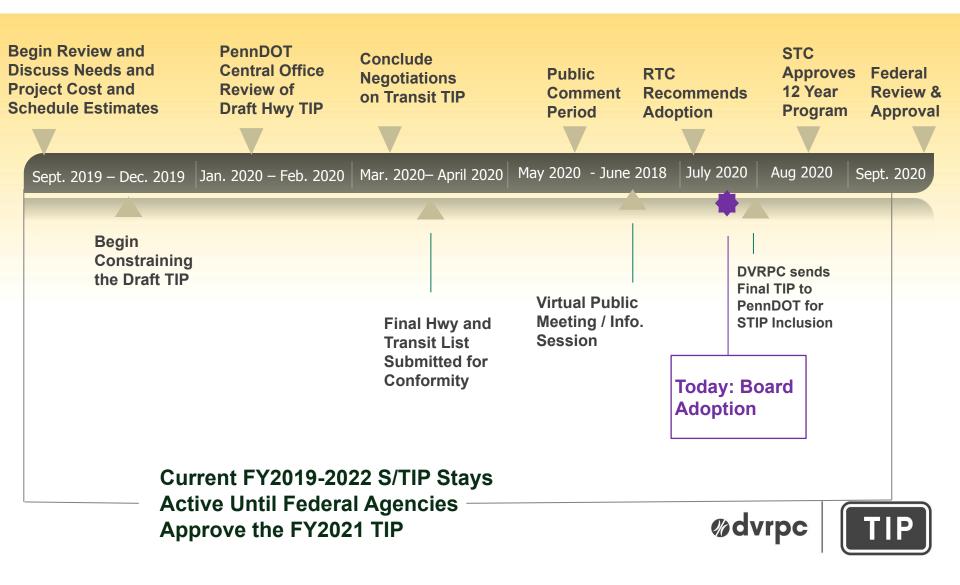
Bucks				
MPMS# 78516 Bridge Replacement	SR:2025			New
LIMITS Brownsville Road over Neshaminy Creek		D6	Est Let: 12/31	/2020 Est Let Date: 12/31/2020
IMPROVEMENT Bridge Repair/Replacement			NHPP:	MRPID:34
MUNICIPALITIES: Middletown		FC:	17	AQ Code:S19
PLAN CENTER: Town Center				IPD: 16
PROJECT MANAGER: EE/J. Arena	CMP: Not SOV Capacity Adding			CMP Subcorridor(s): 5I

This project involves rehabilitating or replacing the Bridge at Brownsville Road over Neshaminy Creek. The improvement is a breakout of MPMS #88706 for Bridge Rehabilitation in order to process federal authorization.

			TIP Program Y	'ears (\$ 000)			
<u>hase</u> <u>Fund</u> CON 185 CON 581 CON 185	<u>FY2021</u> <u>FY2022</u> 3,236 548 3,112	<u>FY2023</u> <u>FY2024</u>	<u>FY2025</u> <u>FY20</u>	<u>26 FY2027 FY2</u>	2028 <u>FY2029</u>	<u>FY2030</u> <u>FY203</u>	<u>1 FY2032</u>
	3,784 3,112 Total FY2021-2024	0 0 6,896	0 Total FY2025-2	0 0 028 0	0 0 Total FY2	0 0 2029-2032	0 0 0



Development Process of the Draft FY2021 TIP for PA





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Program

324 regional highway projects totaling\$1.97 billion

- 32 projects funded by \$859 million provided by the statewide Interstate Management Program (IMP) for I-95, I-76, and I-476 for reconstruction and operational improvements
- 28 transit programs totaling \$2.57 billion

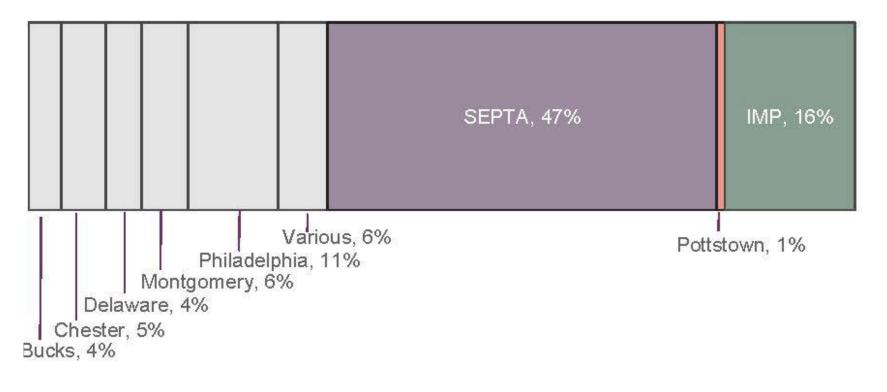


Draft FY2021 TIP for PA \$5.4 Billion





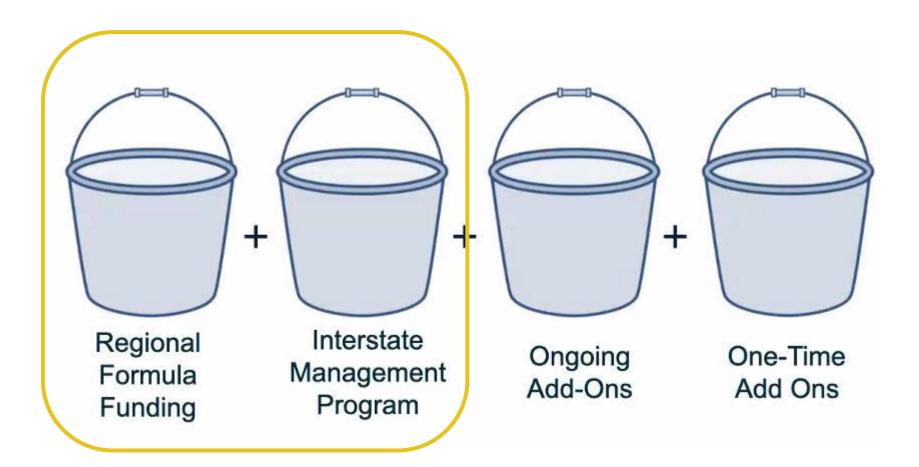
Draft FY2021 TIP for PA \$5.4 Billion | 384 Projects





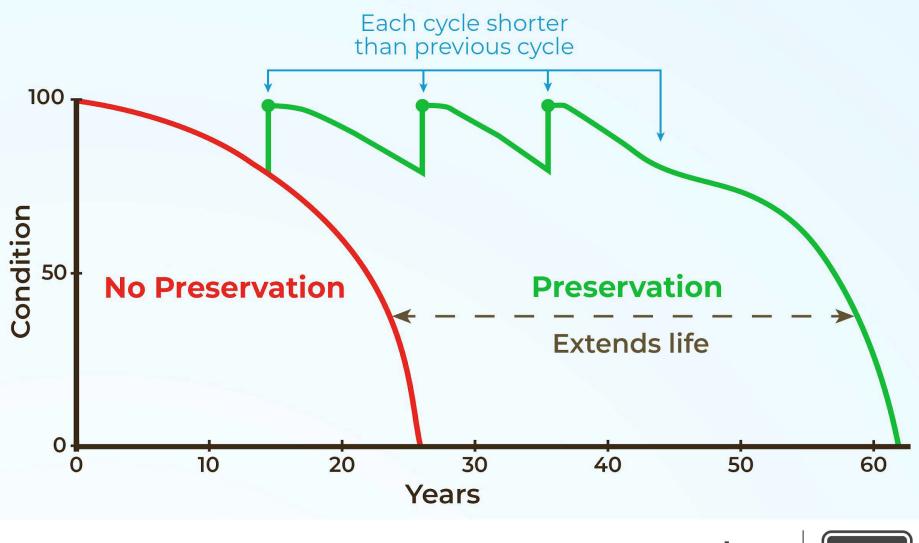


DVRPC Regional Roadway Funding





Lowest-Life Cycle Cost



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Examples of Project Categories (for Highway Funded Projects)

- Bridge Replacement/Rehabilitation 28%
 - Roadway Reconstruction/Restoration 21%
- Interchanges/Intersections, Signals, ITS 19%
- Bicycle/Pedestrian/Streetscapes 16%
- Highway New Capacity 7%
- Transit Flex 4%

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TIP

 Other; CMAQ Competitive Program; Transportation Management Associations, Mobility Alternatives & Share-A-Ride Programs; Reserve Line Items – 5%



Examples of Project Categories

(for Transit Funded Projects)

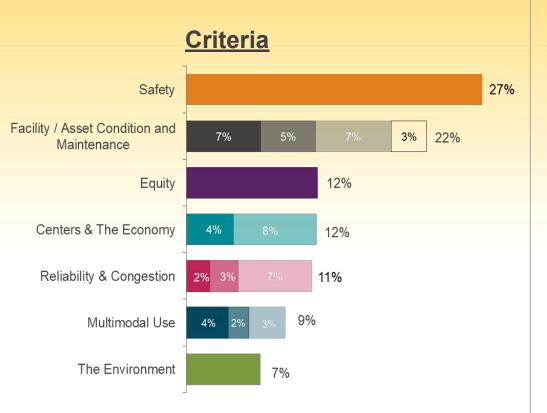
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TIP

- Vehicles/Rolling Stock (includes highway flex) New, Overhaul, Non-Revenue – 39%
 - Bridges, Track, Catenary, Substations, Signals, Communications, & Safety – 26%
 - Lease Agreements & Debt Service 18%
 - Station Renovation & Parking 8%
 - Vehicle Storage & Maintenance Facilities 4%
 - New Rail Capacity Elwyn to Wawa 3%
 - Fare Modernization 2%



TIP-LRP Benefit Evaluation Criteria



Equity Criterion:

- Broad definition of Equity (all IPDs)
- Incorporates scale (population)
- Penalizes projects that increase speeds or air pollution (added VMT) in communities of concern
- Used to inform project prioritization / selection





Projects with Construction Funding Moved to the LRP

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Improvement Program

TIP

- Bucks County Route 1 Improvement Frontage Corridor (Section RC3);
- Chester County US 30, Coatesville Downingtown Bypass (CER-Eastern Section);
- Delaware County US 1 and PA 352 Interchange, Intersection, and Roadway Improvements;
- Montgomery County Belmont Rd/Rock Hill Rd Widening: I-76 Ramps to Rock Hill Road;
- Montgomery County Second Collegeville Bridge Crossing; and
- City of Philadelphia Aramingo/Harbison: Church Street to Amtrak (Section BS3).





New Highway Projects

Regional HSIP Program

- 23 Projects
- \$67.9M
- Projects identified by region and draw from Regional HSIP Line Item





TIP

New Highway Projects

Statewide HSIP Set-Aside

- 3 Projects
- \$4.4M
- Transportation Systems Management
 & Operations (TSMO)
 - 2 Projects
 - \$2.5M
- Additional Funds to the Region



New Transit Projects

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CARES Act (\$24.85 M for Capital Projects)

- Automatic passenger counters on more than 1,100 vehicles
- Trolley operator protective barriers on 188 vehicles, installation of fencing along Center City Concourse and Fare Line Relocation at Frankford, Norristown, and 69th Street Transportation Centers
- Only capital projects to receive funding; rest is to offset operating costs



New Transit Projects

(Design & Study Work)

Projects of Significance - \$50.9M (FY21-FY26)

- King of Prussia Rail Project (15% Design & Environmental Impact Statement)
- Trolley Modernization

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 Trolley Acquisition and Infrastructure – Early Action Efforts



Public Comment Period

- Public Comment Period May 26, 2020 – June 29, 2020
- 2 Virtual Public Meetings Held June 17, 2020
 - 2-3 PM

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- 7-8 PM
- Comments Were Sent:
 - Electronically Via Public Comment Web Application at www.dvrpc.org/tip/draft
 - Or By Email at tip@dvrpc.org
 - Or By US Mail to DVRPC
 - Or By Fax to 215-592-9125
 - Or By Virtual Public Meeting
- View Complete Documents on Website www.dvrpc.org/tip/draft





TIP

Comments & Responses

 Index of Comments – Summary & Commenter

All Comments Received

- Each "Issue" has an "Item ID#"
- From Individuals
- From our DVRPC "Planning Partners"
- From other Agencies or Organizations
- Responses Provided by Appropriate Entity







Draft FY2021 Transportation Improvement Program for Pennsylvania (FY21-24)



More Information

Transportation Improvement Program (TIP)

<u>TIP Homepage</u>

Draft FY2021 TIP for PA

<u>TIP Guide</u>

FY2019 TIP for PA

Project Implementation

Draft FY2021 Transportation Improvement Program for Pennsylvania (FY21-24)

DVRPC's Draft TIP for Pennsylvania represents the region's federally funded transportation improvement priorities and is required by federal law in order for the region to receive and spend federal transportation funds. It has been developed in cooperation with the Pennsylvania Department of Transportation (PennDOT), Southeastern Transportation Authority (SEPTA), Pottstown Area Rapid Transit (PART) and DVRPC's member counties and cities. After consideration of public comments, the Draft TIP with any recommended changes will be presented to the DVRPC Board for adoption at the regularly scheduled Board meeting on July 23, 2020.

DVRPC invites you to review and comment on the Draft FY2021 TIP for the DVRPC PA

Comments (500+) & Responses

(about 45 different issues)

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Henry Ave Safety Improvements – 65%

- Project Concerns, Questions, & Suggestions
- Install Protected Bike Lanes 39%
- Reduce Speed 46%

Supports Project – 24.5%

Please Advance "The Circuit" Network

- Bicycle/Pedestrian Improvement Progress Requests – 8%
- Not Supportive of Project 2.5%



List of Recommended Changes –

(will be incorporated into final document)

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Improvement Program

TIP

Recommended Changes – Table of Changes that Would Become Part of the Final TIP Document

- Highway Schedule Adjustments & Cost Restructuring (pages 1-2)
 - Cash flow changes do not change project cost
 - Funds may not be needed for a phase
 - Switch fund source (some due for conversion)
 - Moving funds between individual projects & appropriate line item or between line items
 - Add PreCon phase back into TIP
 - Minor cost increases or decreases



List of Recommended Changes

Transit Project Cost Changes and Project Additions (pages 2-3)

- Make sure TIP and SEPTA capital budget are in-line
- Cash flow changes

Transportation Improvement Program

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- Switch fund source
- Cost increases or decreases



List of Recommended Changes

Add Swarthmore Station to out years

Exton Station and Paoli Transportation Center

Transportation

TIP

 Phase 3 and 2 (respectively) are fully funded



List of Recommended Changes (Misc)

Project Title & Description Revisions (Page4)

Change I-95: Bridge Street Ramps (Section BS5) title to I-95: Delaware Avenue Extension (BS5)

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- New Projects if Funded With Discretionary Funding & Do Not Impact Conformity, Constraint, or CMP
 - SEPTA CARES Act funding for Automatic Passenger Counters, Trolley Operator Protective Barriers, Fencing along the Center City Concourse and Fare Line Relocation at Frankford, Norristown, and 69th Street Transportation Centers
- Technical Corrections for Final TIP Document
 - Minor Description or Title Edits, Rounding Issues



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MOU for Amending & Modifying the Program



Transportation Improvement Program

TIP

Transportation Improvement Program

TIP

Minor Updates to Provide Consistency with PennDOT/FHWA/FTA MOU

- Clarify Advance Construct Conversion if no other phases have funds obligated then the action of conversion is a Formal Action
- Clarifying draw downs and returns of \$5M or more to a Line Item would be part of the Formal Action
- Clarified Language when a project breakout occurs in 2 or more separate projects to facilitate delivery-Admin Modification
- Add or remove PE/FD phase (below \$5M) to already programmed project below – Admin Amendment



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Minor updates to provide consistency with PennDOT/FHWA/FTA MOU

- New projects derived from statewide managed programs and selected by PennDOT Staff or Sec. of Transportation will go through formal review and DVRPC Board will be requested to 'Accept" projects and add their additional funds to TIP
- Clarify language that funding is allocated to the project, not the county



Update language that TIP revisions are consistent with:

- Pennsylvania's Transportation Performance Management (TPM)
- PA & DVRPC LRPs

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TIP

- PennDOT's Transportation Asset Management Plan (TAMP)
- Transit Asset Management (TAM) Plan
- Strategic Highway Safety Plan (SHSP)
- Congestion Management (CMP)
- PennDOT Connects, and Performance-Based Planning and Programming (PBPP)
- All new projects derived from Statewide Managed Programs will be screened for AQ significance prior to adding to TIP







Update Language to clarify if LRP expires then TIP MOU will not be utilized and all changes using federal funds would need DVRPC Board and federal approval.



MPMS# 16194 – High Street over Manatawny Creek in Pottstown



Photo Credit: Montgomery County

MPMS# 80054 – Bridges over Vine Street Expressway in Philadelphia



Photo Credit: PennDOT

MPMS# 80054 – Bridges over Vine Street Expressway in Philadelphia



Photo Credit: PennDOT

MPMS# 80054 – Bridges over Vine Street Expressway in Philadelphia



Photo Credit: PennDOT

MPMS# 60655 – Levittown Station

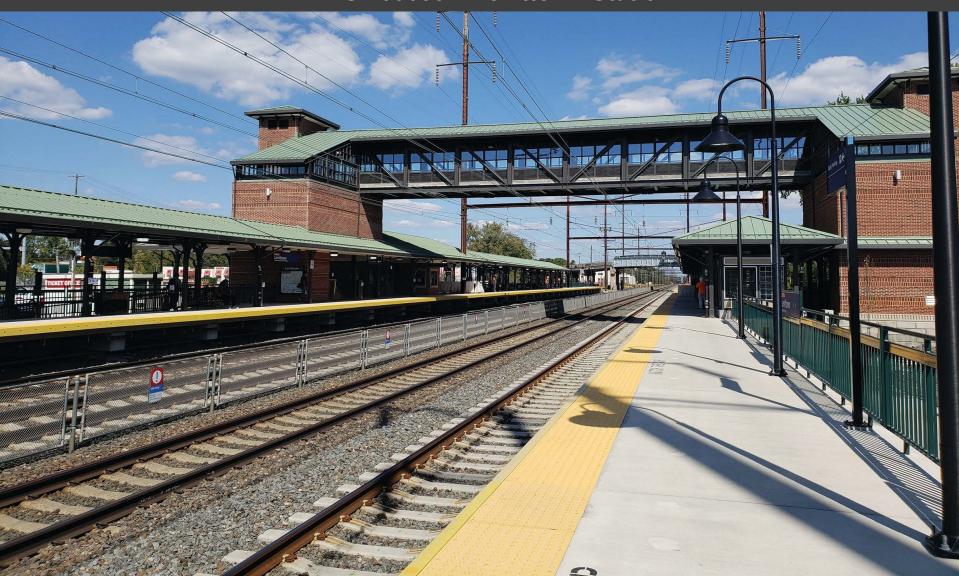
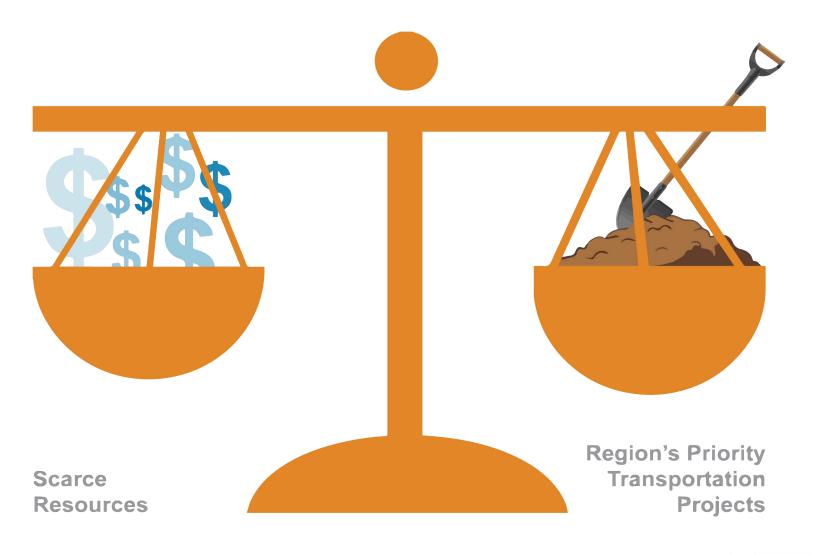


Photo Credit: SEPTA



Photo Credit: SEPTA

Regional Decision Making is Critical





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Adopt the DVRPC FY2021 TIP

That the Board approve the Memorandum of Understanding (MOU) and adopt the DVRPC FY2021 **Transportation Improvement Program** (TIP) for Pennsylvania (FY21-FY24) with the proposed list of recommended changes as the region's official selection of transportation projects for funding.







Richard Murphy Manager, PA Capital Programs 215-238-2946/rmurphy@dvrpc.org www.dvrpc.org/TIP



July 23, 2020 | DVRPC BOARD 🚳 📼 💽 🔝 📳 🚹 🕂 📋

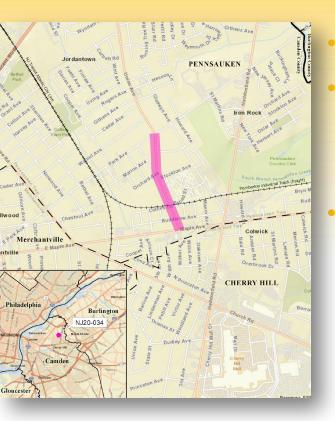


TIPACTIONS

Transportation Improvement Program Pennsylvania TIP (FY2019-2022) New Jersey TIP (FY2020-2023)



CR 615 (Union Avenue), CR 621 (Park Avenue) to CR 537 (Maple Avenue) Camden County | Add a New Project to TIP



TIP Amendment

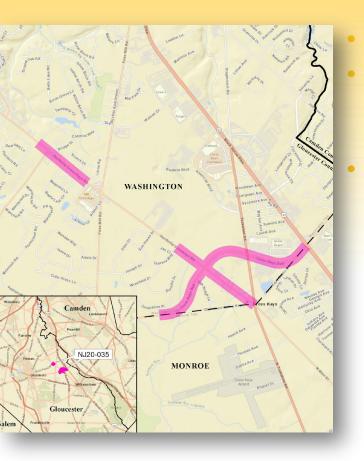
Action: Add new \$1.651 M STBGP-PHILA funded project for FY21 construction (CON)

Background:

- Mill and overlay pavement project
- FY21 Quick Obligation (3 new projects total \$7.251 M)
- Project will not Not carry over if it misses FY21 authorization (use it or lose it)



CR 689 / CR 654 Resurfacing Gloucester County | Add a New Project to TIP



TIP Amendment

Action: Add new \$2.6 M (\$2.11 M STBGP-PHILA / \$490,000 HWYINF) project for FY21 CON Background:

- Roadway rehabilitation / resurfacing project
- FY21 Quick Obligation (3 new projects total \$7.251 M)
- Additional federal Highway Infrastructure Program (HWYINF) funds for the Phila urbanized area in New Jersey
- Project funding will not carry over if it misses FY21 authorization (use it or lose it)



Benjamin Franklin Bridge Deck Overlay and Approaches DRPA / PATCO | Add a New Project to TIP



TIP Amendment

Action: Add new \$3 M HWYINF project for FY21 CON

Background:

- Bridge repair / pavement resurfacing project
- FY21 Quick Obligation (3 new projects total \$7.251 M total)
- Additional federal Highway Infrastructure Program (HWYINF) funds for the Philadelphia urbanized area in New Jersey
- Project funds will not carry over if it misses FY21 authorization (use it or lose it)



TIP ACTIONS | Proposed – NJ

Agenda Items 2a, 2b, and 2c

That the DVRPC Board approve Camden County, Gloucester County, and DRPA / PATCO's TIP Amendment requests:

Add 3 new projects to the TIP for FY21 CON totaling \$7.251 M

(\$3.761 M STBGP-PHILA / \$3.49 M HWYINF)

Camden County:

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NJ

CR 615 (Union Avenue), CR 621 (Park Avenue) to CR 537 (Maple Avenue) – \$1.651 M STBGP-PHILA

Gloucester County:

- CR 689 / CR 654 Resurfacing \$2.6 M (\$2.11 M STBGP-PHILA / \$490,000 HWYINF)
 DRPA / PATCO:
- Benjamin Franklin Bridge Deck Overlay and Approaches – \$3 M HWYINF

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Restriping Program & Line Reflectivity Management System

NJDOT Statewide Program Cost Increase

TIP Amendment

- Action: Increase FY20 Engineering/Right-of-Way/Construction (ERC) phase by \$23.207 M STBGP-FLEX
- Background:
 - Statewide program funds application of long-life pavement markings and raised pavement markers on the state highway system
 - Line item increasing from \$20 M to \$43.207 M STBGP-FLEX funds
 - NJDOT must have all three MPO Board approvals for this action in order to proceed





TIP ACTION | **Proposed** – **NJ** Agenda Item 2d

Recommend Board approval of NJDOT's TIP Amendment request for the Statewide Program:

Restriping Program & Line Reflectivity Management System Increase FY20 ERC phase by \$23.207 M STBGP-FLEX

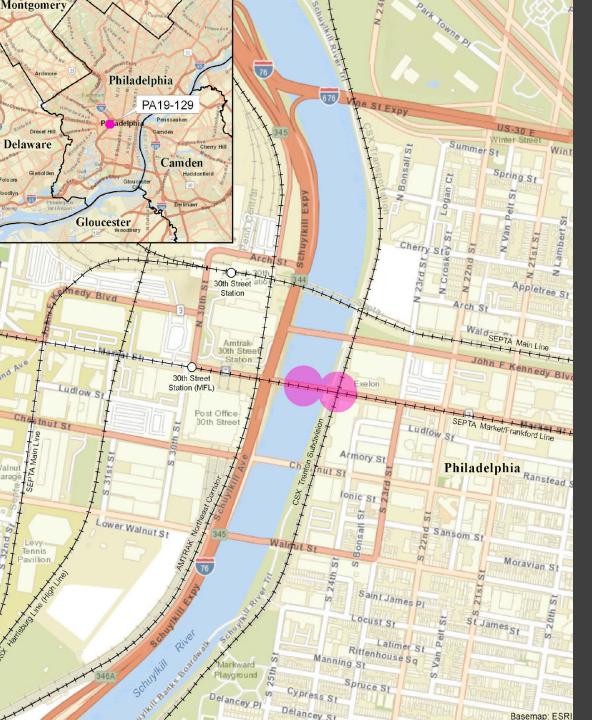


Market Street Bridges Over Schuylkill River and CSX Railroad (MSB)

City of Philadelphia | Increase Final Design Phase

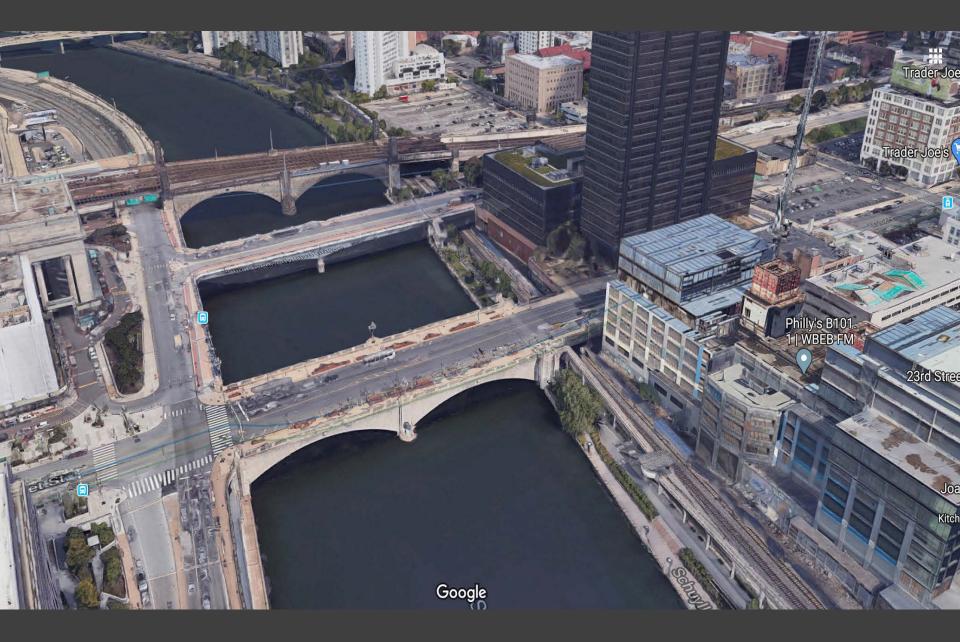
- TIP Amendment
- Action: Increase Final Design (FD) phase by \$6.291 M (\$5.033 M NHPP / \$1.258 M State 185) in FY20
- Background:
 - \$100 Million Project includes:
 - Rehabilitation of 2-span bridge carrying Market St. over the Schuylkill River,
 - Replacement of bridge carrying Market Street over the Schuylkill River Park and CSX railroad
 - Replacement of Market Street bridge over I-76 at the Schuylkill Avenue West intersection - adding to scope
 - Nearby Chestnut Street Bridges, Ramps, (8) at 30th Street project should be completed when this project starts CON in Spring / Summer 2022

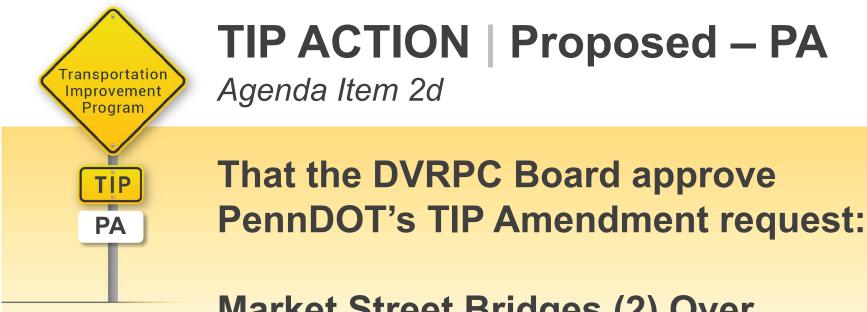




Cost increase due to design work includes:

- Widening of sidewalk on Market St. bridge over CSX railroad;
- Bulkhead repairs;
 - Modifications to erosion and sedimentation plans;
- Complex traffic control plans, including analysis of the full detour of I-76 that will be required;
- Investigation of feasibility of protected bicycle facilities on Market Street including traffic analysis;
- Coordination to mitigate impacts on SEPTA Market Street Subway line which is UNDER the bridge
- Utility coordination.





Market Street Bridges (2) Over Schuylkill River and CSX Railroad (MSB) Increase FY20 FD phase by \$6.291 M (\$5.033 M NHPP / \$1.258 M State 185)



I-95 Overhead Bridges

Delaware County | Increase Construction Phase

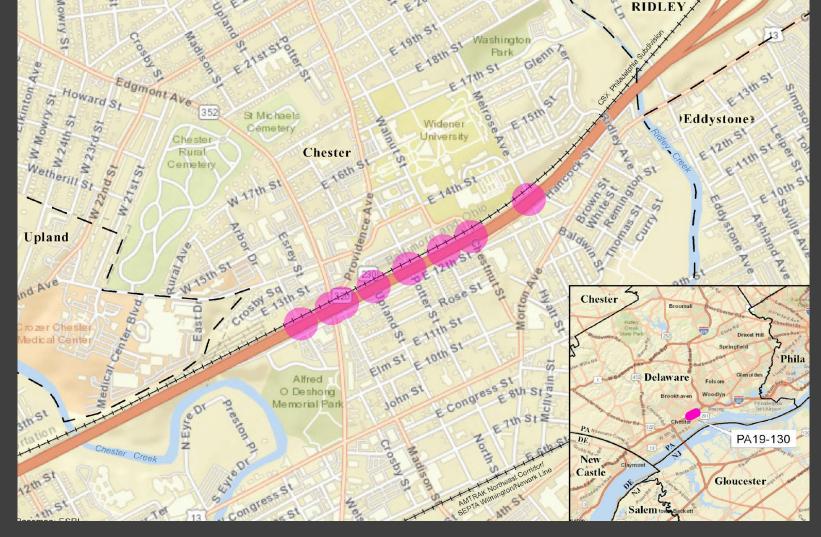
• TIP Amendment

 Action: Increase Construction (CON) phase by \$8.028 M State 581 (FY20: \$5.528 M; FY21: \$2.5 M)

Background:

- Inspections during CON revealed bridges had deteriorated significantly since last evaluation;
- Additional work includes traffic protection and maintenance including construction of an access road, replacement of deck spans, concrete base installation, & sign structure replacement
- Total estimated CON (including proposed increase) = \$32.742 M





Project includes:

- Rehabilitation & painting of 8 bridges spanning I-95 in the City of Chester;
- Potter St. & Melrose Ave. bridges will have deck replacements;
- All bridges will have miscellaneous concrete repairs & will be painted;
- Protective fences will be repaired or replaced.



TIP ACTION | Proposed – PA Agenda Item 2e

That the Board approve PennDOT's TIP Amendment request:

I-95 Overhead Bridges Increase CON phase by \$8.028 M State 581 (FY20: \$5.528 M; FY21: \$2.5 M)



I-76 Bridge Repair Section SRE

Various Counties | Increase Construction Phase

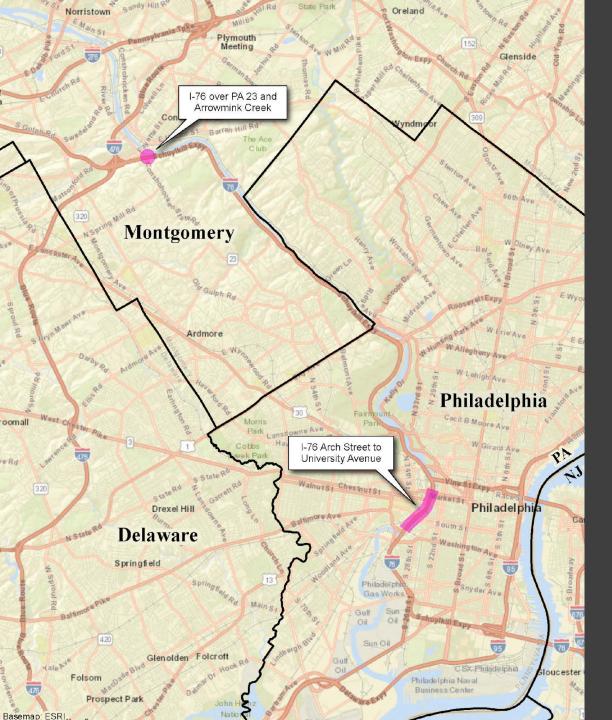
• TIP Amendment

 Action: Increase Construction (CON) phase by \$8.3 M NHPP / Toll Credit (FY20: \$6.244 M; FY21: \$2.056 M)

Background:

- Inspections during CON revealed conditions had deteriorated significantly since last evaluation
- Deterioration of the steel structures due to roadway beneath the barrier leaking onto steel structure required increase to quantity of Polyester Polymer Concrete
- Total estimated CON (including proposed increase) = \$50.066 M





Additional required work includes:

- Increase to quantity of Polyester Polymer Concrete;
- Steel repairs & reinforcement;
- Roadway stabilization foam;
- Engineering & design costs for bent cap support systems & exterior framework jacking;
- Additional Variable Message Sign;
- Tree and debris Removal.



TIP ACTION | Proposed – PA Agenda Item 2f

Recommend Board approval of PennDOT's TIP Amendment request:

I-76 Bridge Repair Section SRE Increase CON phase by \$8.3 M NHPP / Toll Credit (FY20: \$6.244 M; FY21: \$2.056 M)



Maintenance & Transportation Facilities Program SEPTA | Add a New Project to Program

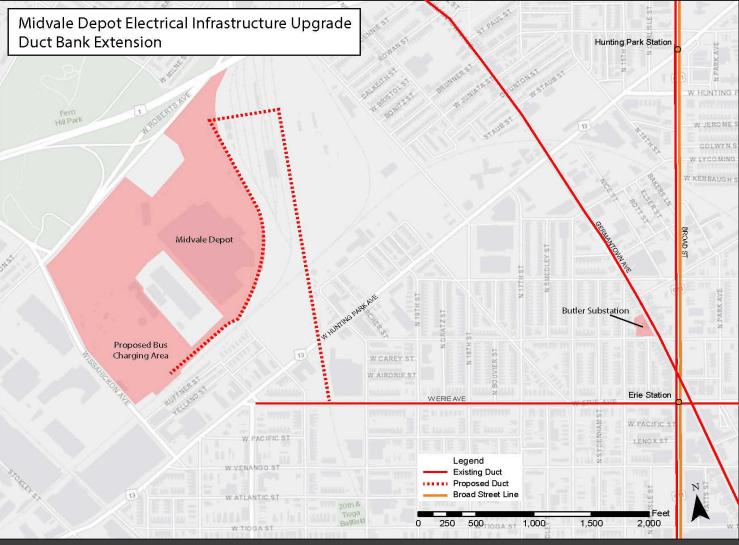
• TIP Amendment

• Action: Add the Midvale Depot Electric Bus Infrastructure project to FY20 Engineering / Right-of-Way / Construction (ERC) phase of program for \$4.3 M Federal Section 5339C

• Background:

- SEPTA selected for Federal Transit Administration Low or No Emission Program Section 5339C funds to support \$5.375 M Midvale Depot Electric Bus Infrastructure project
- Project will allow SEPTA to utilize electrical power feeds from Broad Street Subway line to charge electric buses
- Additional funds to the region





Project includes:

- Reconfiguring existing access road at Midvale Depot to accommodate 10 electric bus charging berths
- Extending duct bank linked to Butler Substation ¹/₂ mile to Midvale Depot



TIP ACTION | Proposed – PA Agenda Item 2g

Recommend Board approval of SEPTA's TIP Amendment request:

Maintenance & Transportation Facilities Program

Add the Midvale Depot Electric Bus Infrastructure project to FY20 ERC phase of program for \$4.3 M Federal Section 5339C

Note: Additional funds to the region











Connections 2045 Amendment

DVRPC Board July 23, 2020

CONNECTIONS

REGIONAL PLANNING COMMISSION



- 1. Reasons for this Amendment
- 2. TPM requirements
- 3. Revenue & Allocation
- 4. Changes to Major Regional Project List
- 5. Public Comment
- 6. Requested Action

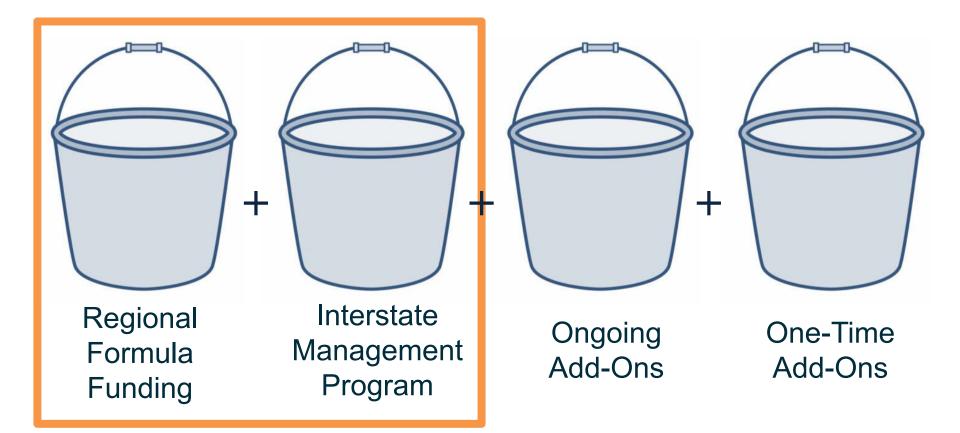
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Reasons for this Amendment



CONNECTIONS Pennsylvania Roadway Funding



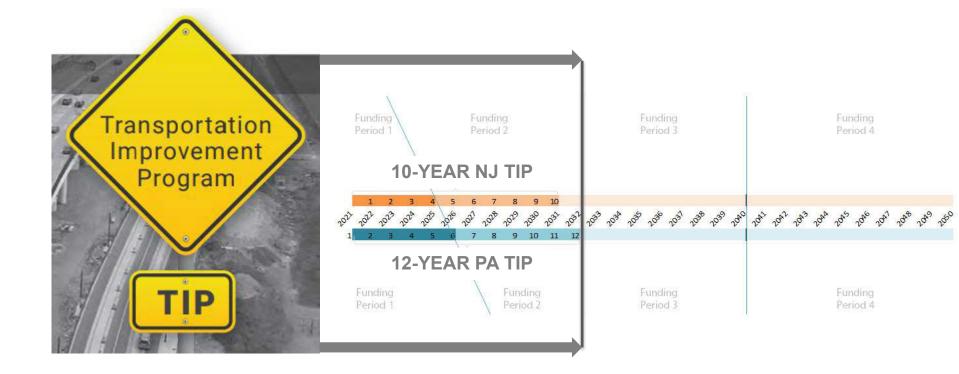
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Moved out of FY 21 PA TIP

MPMS #	Facility	County
93446	US 1 - Frontage Corridor	Bucks
87781	US 30-Coatesville-Downingtown Bypass (CER-Eastern Section)	Chester
15251	US 1 at PA 352 and 452 Intersection Improvements	Delaware
64795	Belmont Avenue/Rock Hill Road at I-76 Interchange	Montgomery
102273	Second Collegeville Bridge Crossing	Montgomery
87784	I-95 Philadelphia North (BS3) - Aramingo / Harbison: Church Street to Amtrak	Philadelphia

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CONNECTIONS New Jersey TIP









Transportation Performance Management

Focusing on Performance for Safe, Reliable Journeys





Transportation Performance Management (TPM) Requirements



CONNECTIONSRoadway Transportation Performance Management (TPM)

TPM 1. Road Safety*

- Number of of Fatalities
- Fatality Rate per 100 million VMT
- Number of Serious Injuries
- Serious Injury Rate per 100 million VMT
- Number of non-motorized fatalities and serious injuries

TPM 2. Road Conditions

- Good Pavement Lane Miles
- Poor Pavement Lane Miles*
- Good Bridge Deck Area
- Poor Bridge Deck Area*

TPM 3. Roadway Performance

- Person-Miles Traveled with Reliable Travel Times (%)
- Truck Travel Time Reliability
 Index
- Non-Single Occupant Vehicle
 Travel
- Peak Hour Excessive Delay (PHED) per Capita
- CMAQ Emissions Reductions

*Has penalty associated with not meeting target(s)

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CONNECTIONS Transportation Performance Management (TPM)

Transit Conditions

- Rolling Stock (Revenue Vehicles)
- Equipment (Non-Revenue Vehicles)
- Facilities (Passenger and Administrative / Maintenance Facilities)
- Infrastructure (Rail Track)

Transit Safety

- Fatalities: Total number and rate per total vehicle revenue miles (VRM) by mode
- Injuries: Total number and rate per total VRM by mode
- Safety Events: Total number and rate per total VRM by mode
- System Reliability: Mean distance between major mechanical failures by mode

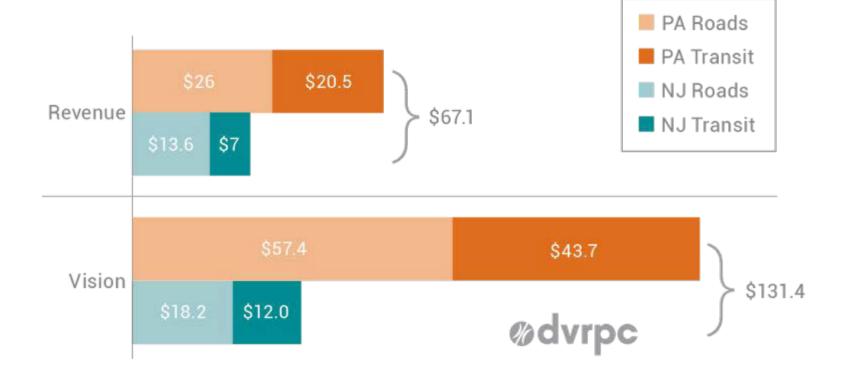
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Revenue & Allocation



CONNECTIONS Revenue & Vision Plan





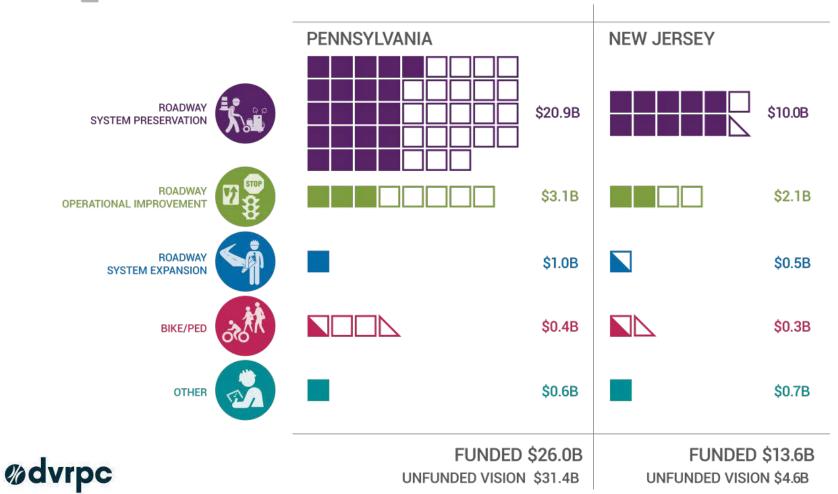
Roadway Revenue Allocation

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FUNDED = \$1 Billion Year-of-Expenditure (Y-O-E)

CONNECTIONS

UNFUNDED= \$1 Billion Year-of-Expenditure (Y-O-E)

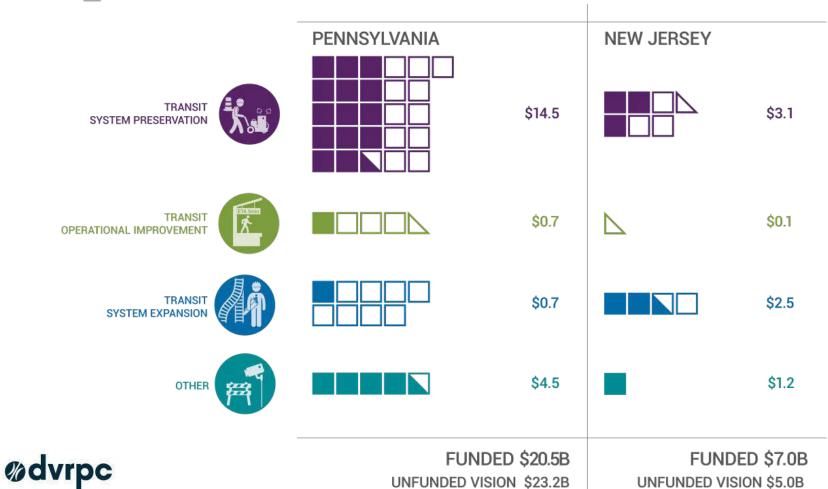


Transit Revenue Allocation

FUNDED = \$1 Billion Year-of-Expenditure (Y-O-E)

CONNECTIONS

UNFUNDED= \$1 Billion Year-of-Expenditure (Y-O-E)



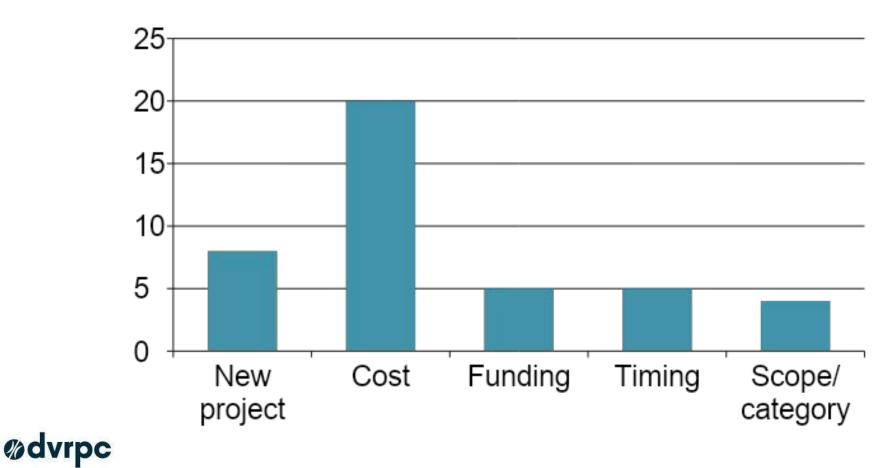


Changes to Major Regional Project List



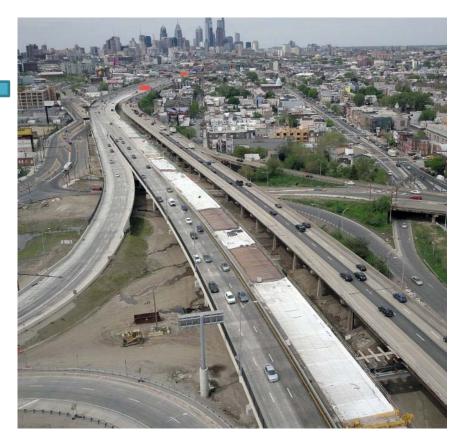
CONNECTIONS 34 Major Regional Projects Updated

10 include 2 or 3 changes



CONNECTIONS Moved from TIP into LRP

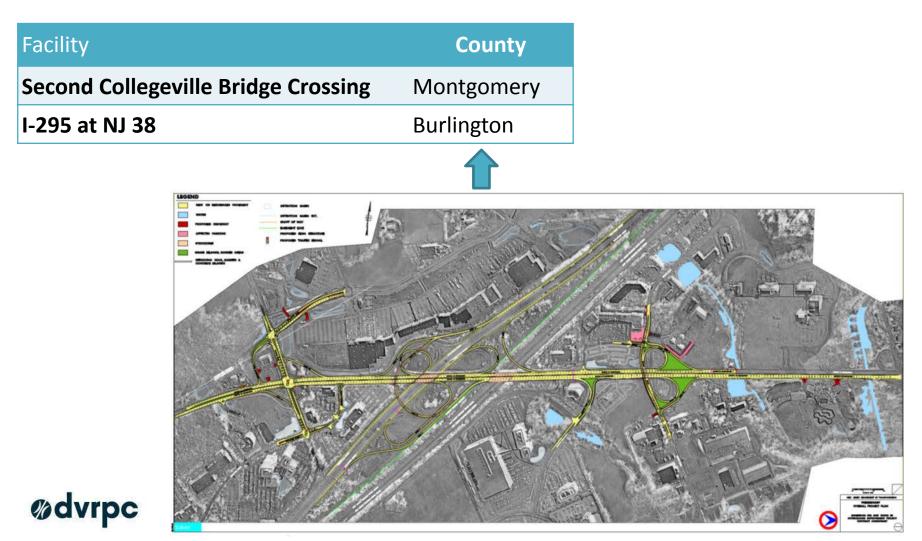
Facility	County	
I-95 Philadelphia North	Philadelphia	
US 1 at PA 352 and 452	Delaware	
US 1	Bucks	
Belmont Avenue at I-76 Interchange	Montgomery	
US 30-Coatesville- Downingtown Bypass	Chester	



Source: PennDOT

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CONNECTIONS Moved into Unfunded List



CONNECTIONS Change in Scope or Category

Facility	County		-	SHOULDER USE PERMITTED ON	
I-476 Active Traffic Management	Delaware	←	t	GREEN ARROW ONLY	
I-95 Active Traffic Management	Delaware		Re		Later
PA 63 at Welsh Road	Montgomery		IN		
			S	Dynamic Part-Time houlder Use	General Purpose Lanes Open 24 Hours

Source: PennDOT

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CONNECTIONS New Minor System Expansions Projects

Facility	County
PA 663 from Portzer to Hickory	Bucks
Orvis Road	Chester
Ashburn Rd. Extension	Chester
Horsham Road	Montgomery
Spring House Road	Montgomery
37th St. Extension	Philadelphia

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CONNECTIONS Changes to Major Regional Project List

Bucks

- PA 663 from Portzer Road to Hickory Drive
- Bristol Road Extension
- US 1

Chester

- Orvis Road
- Ashburn Road Extension
- US 30-Coatesville- Downingtown Bypass

Delaware

- West Chester Pike (PA 3)
- I-95 Sound Walls
- I-95/US 322/Highland Avenue Interchange
- US 1 at PA 352 and 452
- I-476 Active Traffic Management
- I-95 Delaware County Active Traffic Management

Montgomery

- Spring House Road
- Horsham Road
- Henderson Road and South Gulph Road
- I-76 Integrated Corridor Management
- Belmont Avenue at I-76 Interchange
- District 6 Traffic Management Center
- Philmont Avenue/Tomlinson Road/Pine
 Road
- Second Collegeville Bridge Crossing
- PA 63 at Welsh Road
- I-276/PA 611 Willow Grove Interchange
- I-276/ I-76 Valley Forge Interchange
- I-276 and Virginia Drive Interchange
- I-276 and Henderson Road
- I-276 and PA 63/Welsh Road

Philadelphia

- Market Street over Schuylkill River
- 37th Street Extension
- Penn's Landing Cap and Civic Space
- Schuylkill River Swing Bridge
- I-95 Philadelphia North

Burlington

• I-295 at NJ 38

Camden / Gloucester

 I-295/NJ 42 (Missing Moves)

Mercer

• US 1 from Alexander Road to Mapleton Road

ΡΔ

N.J



Public Comment



CONNECTIONS Public Comment Period

Public comment period held from May 26 to June 29, 2020. Two public comment meetings held June 17, 2020.



www.dvrpc.org/LongRangePlan/

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CONNECTIONS 3 Public Comments Received

Anna Perng

• Concerned about racism and gentrification at new PATCO Chinatown Station, with recommendations to combat both.

Sanjeev Ramchandra

• Proposal to increase the sales tax in order to create reliable local funding for NJ Transit.

Daniel Trubman

• Stop prioritizing auto infrastructure.

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www.dvrpc.org/LongRangePlan/



Questions?

Then

Requested Action



CONNECTIONS Action

Action Proposed

Approve the July 2020 Amendment to Connections 2045 Plan for Greater Philadelphia, which incorporates required FHWA and FTA performance measures and revises the scope, funding, status, and/or timing of 34 major regional projects.



Thank You!

www.dvrpc.org/LongRangePlan/



CONNECTIONS

1

CONNECT WITH US www.dvrpc.org Michael Boyer DVRPC Board July 23, 2020

Transportation Conformity Demonstration: Draft Connections 2045 LRP Amendment, FY 2020 NJ TIP, and Draft FY 2021 PA TIP



What is Transportation Conformity?

Transportation Conformity is a federal requirement to control emissions of on-road, mobile sources of NAAQS pollutants in designated air quality non-attainment or maintenance areas.









What is Transportation Conformity?

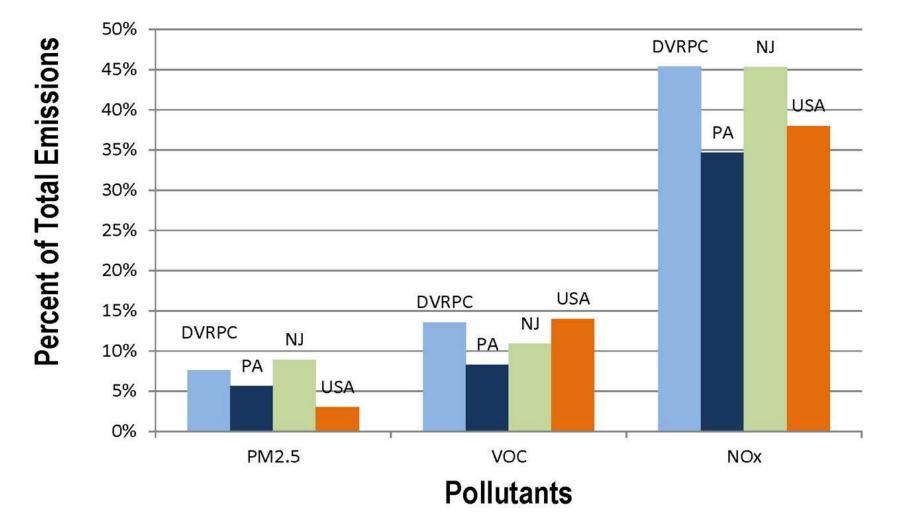
There are three major sources of emissions:

- Stationary power plants, industrial boilers...
- Industry petroleum refineries, cement kilns…
- Mobile Sources
 - Off-road trains, planes, construction equipment
 - On-road mobile sources cars, trucks, buses
 Accounts for 38% NO_x, 14% VOC, 3% PM_{2.5}

Combine to^lform Ozone

Source: FHWA Transportation Air Quality Selected Facts and Figures

On-Road Mobile Emissions



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What is Transportation Conformity?

Conformity Triggers:

Connections 2045 LRP Amendment

Amendments to the FY 2020 TIP for NJ

✤ A new FY 2021 TIP for PA



Who Must Demonstrate Conformity?

Non-Attainment Areas

 Area not meeting federal air quality standard(s) (NAAQS)

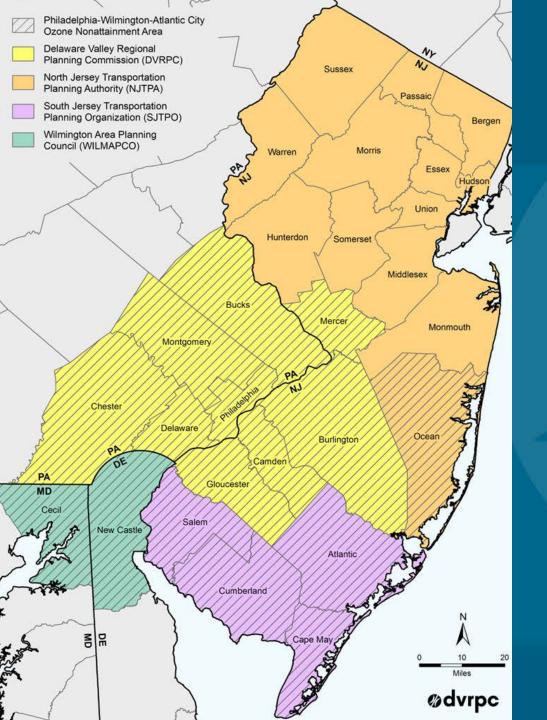
Maintenance Area

Area that previously was in non-attainment

State Implementation Plans (SIPs)

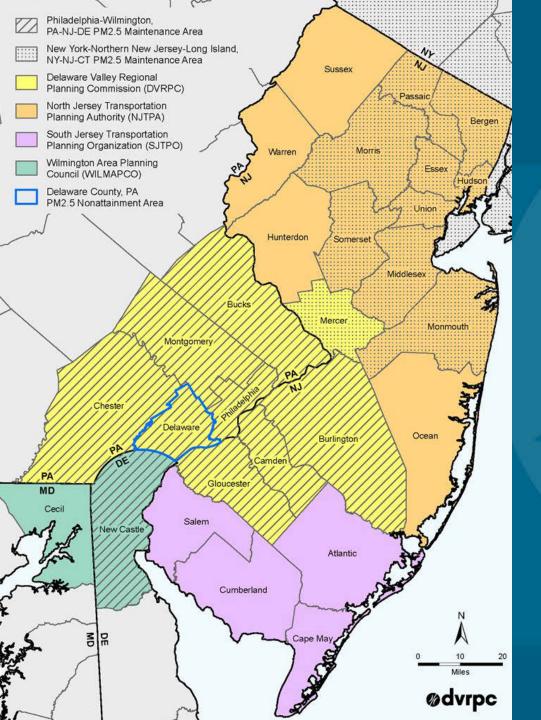
States must develop plans (SIPs)
 to meet or continue to maintain the NAAQS





Ozone Non-Attainment Area





PM_{2.5} Maintenance Areas



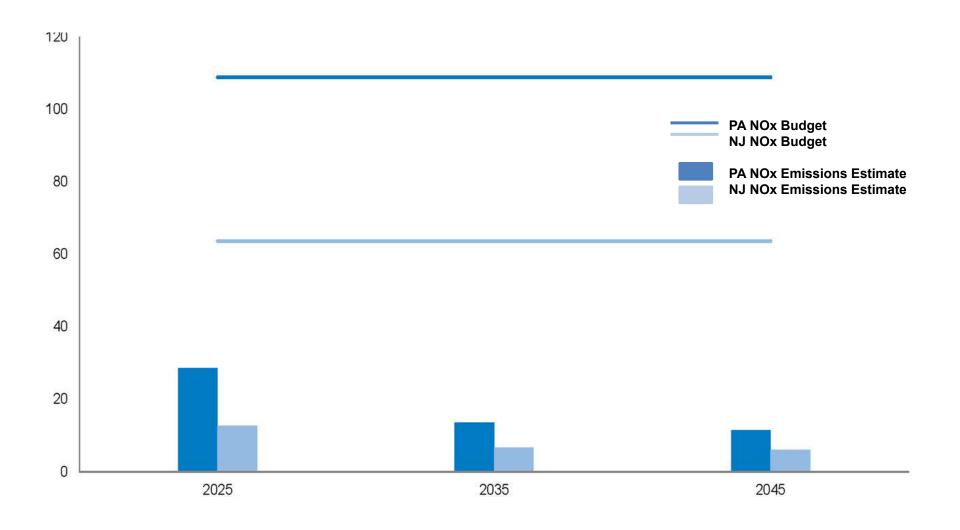
Conformity Test

Conformity is tested against SIP "budgets"

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

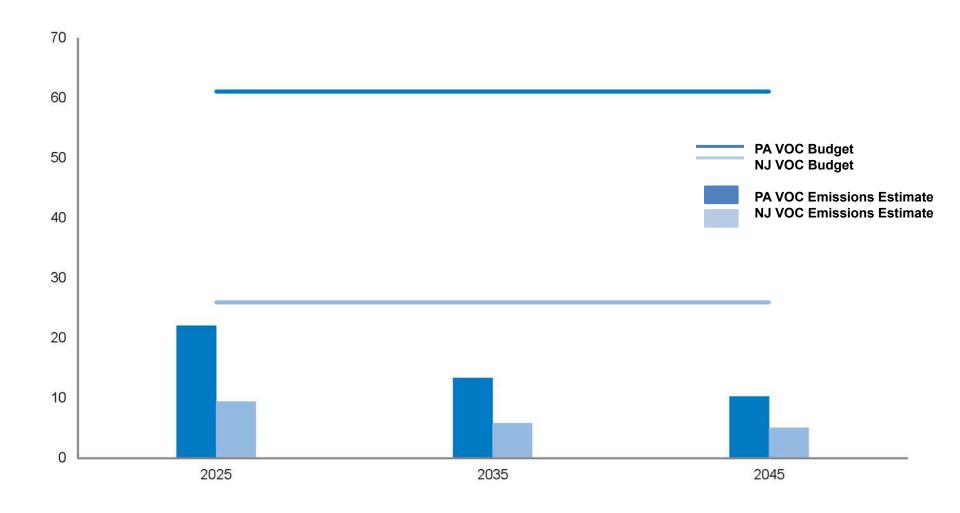


NO_x Emissions Results



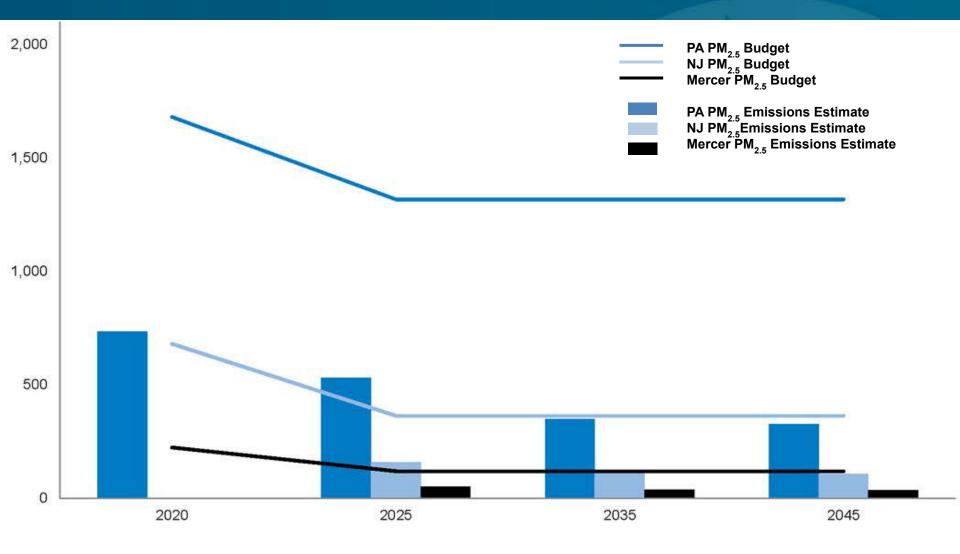


VOC Emissions Results



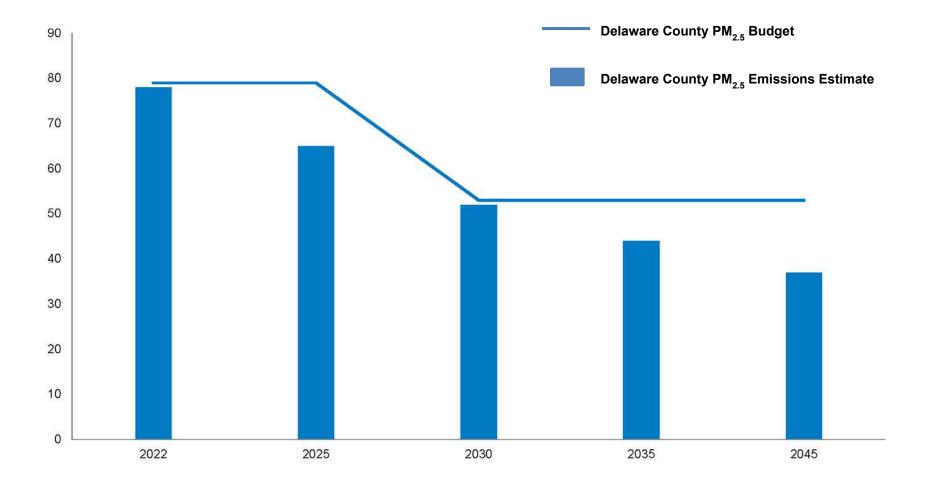
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PM_{2.5} Emissions Results





PM_{2.5} Emissions Results – Delaware County





Emissions Analysis Results

Draft Connections 2045 LRP Amendment, FY 2020 NJ TIP, and Draft FY 2021 PA TIP

- "Conform" to the corresponding SIPs and the current final conformity guidance under the CAA, including all applicable NAAQS requirements
- Transportation investments identified in the Plan and TIPs do not impede efforts to attain NAAQS
- Replaces the existing conformity finding of September 2019

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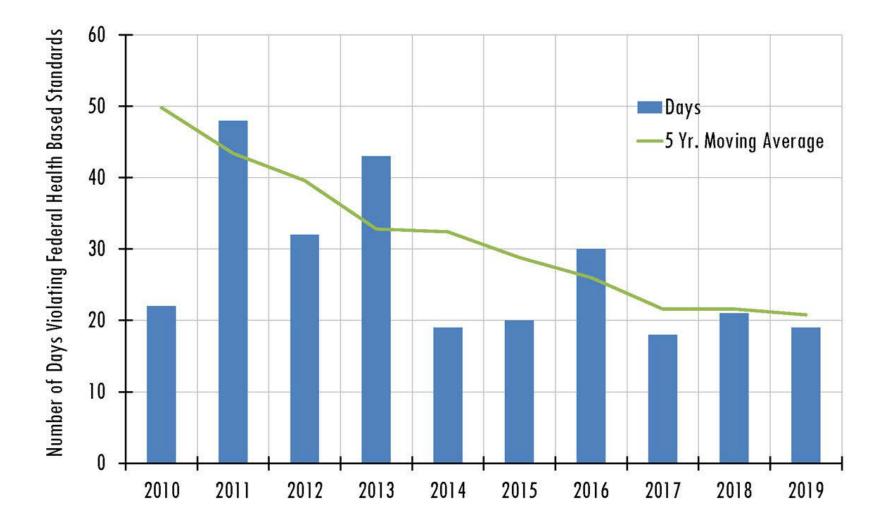
Public Comment

Public Comment Period ✤ June 3, through July 6, 2020 Two virtual public meetings June 17 at 2PM and 7PM Comments were accepted: ♦ at public meeting via email (airconformity@dvrpc.org) In the online (www.dvrpc.org/AirQuality/Conformity/) ♦ via mail and fax

There were no public comments on this action

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Regional Air Quality Trends



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What Can We Do Better?

Regional air quality is improving but...

- Pockets of poorer air quality at the local level
 - Near transportation, goods movement hubs, and point sources
- Often times located within disadvantaged communities

What can we do?

- Identify sources of localized emissions
- Invest in improving operations, reducing congestion, promoting alternative transportation options, and modernizing the fleet of vehicles



Action Proposed

That the DVRPC Board adopt the conformity findings of the Draft Connections 2045 LRP Amendment, FY 2020 TIP for New Jersey, and Draft FY 2021 TIP for Pennsylvania for Ozone and PM_{2.5} in the DVRPC planning area.

An Assessment of Planning Tools for Climate Change Resiliency in the Delaware Valley

Miles Owen, Office of Environmental Planning DVRPC Board Meeting July 23, 2020



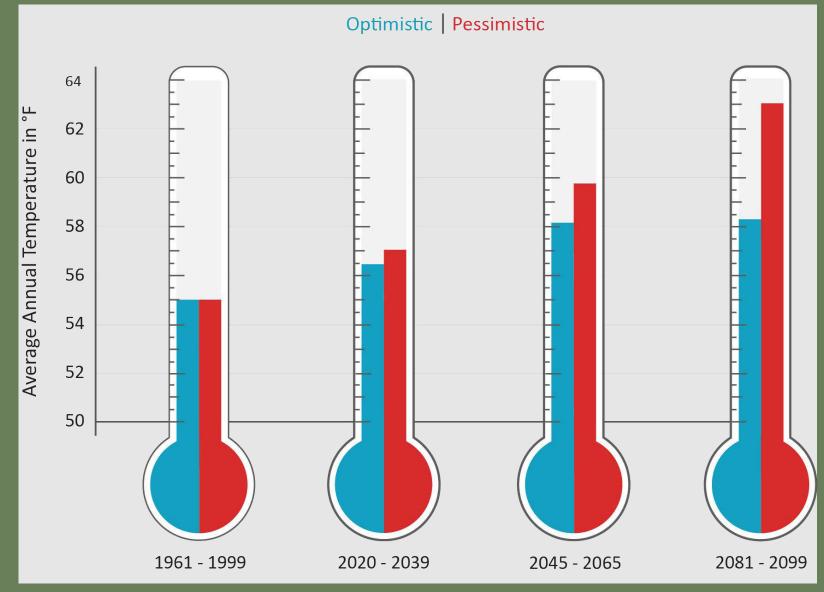
1. Climate Change and Resiliency

- 2. Resiliency Planning Tools for the Delaware Valley
- 3. Organizing the Tools
- 4. Utilizing Resiliency Tools



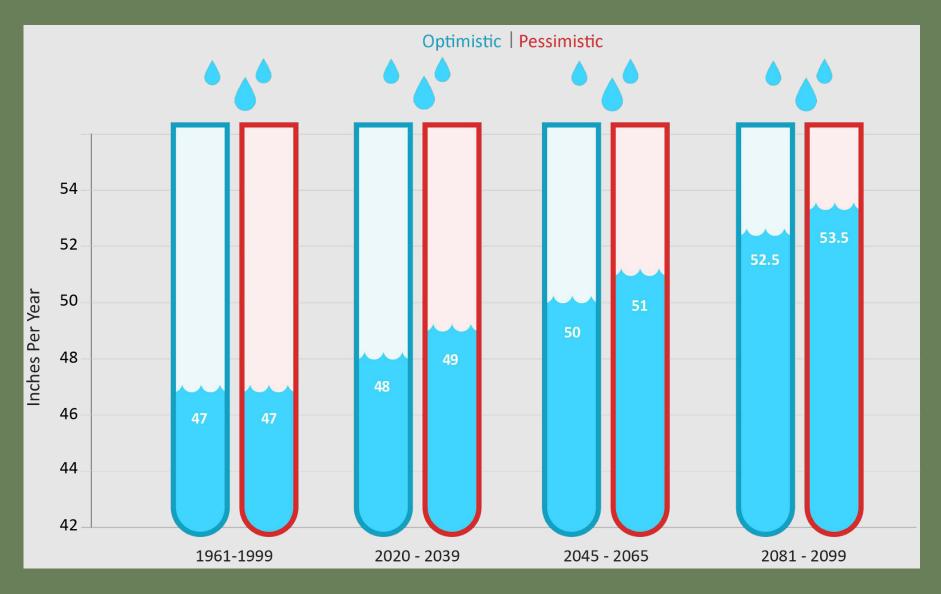
Climate Change and Resiliency





Section 1: Climate Change and Resiliency

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Section 1: Climate Change and Resiliency



Coastal Effects of Climate Change in Southeastern PA

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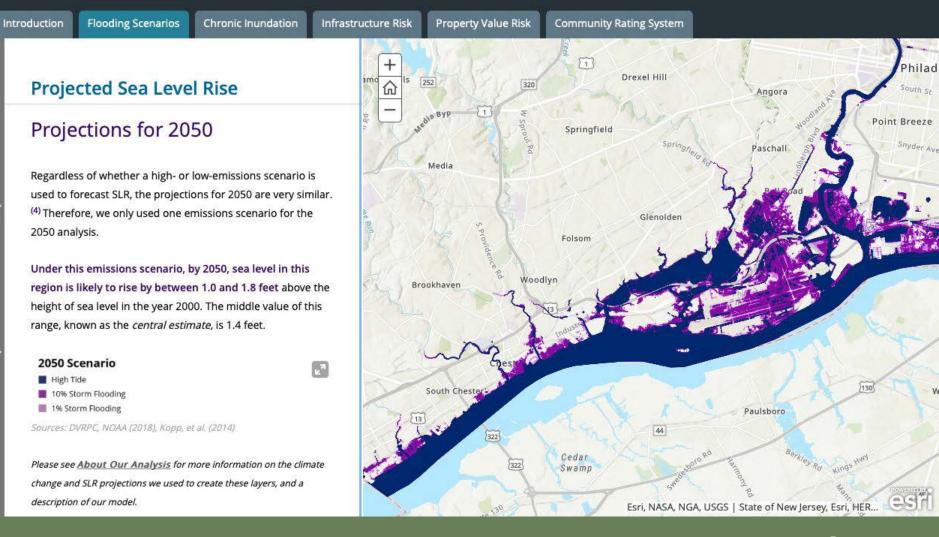
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Section 1: Climate Change and Resiliency

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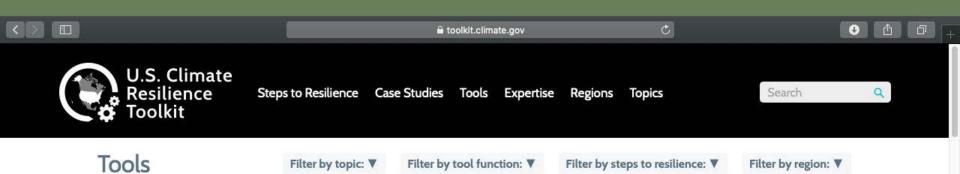
Resiliency: the capacity of individuals, communities, institutions, businesses, agencies, and systems to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks they experience

Section 1: Climate Change and Resiliency

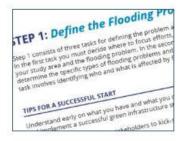


Resiliency Planning Tools for the Delaware Valley





Tools are available to help you manage your climate-related risks and opportunities, and to help guide you in building resilience to extreme events. Browse the list below, or filter by topic and/or tool functionality in the boxes above. To expand your results, click the Clear Filters link.



A Guide to Assessing Green Infrastructure Costs and Benefits for Flood Reduction

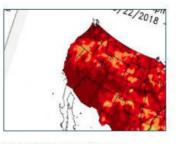
Communities can use this sixstep process as a framework and to spark discussion—when assessing the costs and benefits of green infrastructure projects.

Read more >

SHARE

TWEET

PRINT



ACIS Climate Maps

Generate maps of temperature and precipitation variables for the United States.

Read more >



Adaptation Tool Kit: Sea-Level Rise and Coastal Land Use

This toolkit presents information on 18 different land-use tools (generally used legal devices) that could be used to preemptively respond to threats that sea level rise poses to public and private coastal development and infrastructure.

Read more >



Adaptation Workbook for Land Management and Conservation

Land managers, natural resource professionals, and motivated landowners can use this structured process to consider the effects of climate change on forests, urban forests, and agricultural properties.

Read more >



Hundreds of tools on online aggregations websites



Hundreds of tools on online aggregations websites

65 tools and resources deemed broadly applicable for general planning



Hundreds of tools on online aggregations websites

65 tools and resources deemed broadly applicable for general planning

18 tools and resources deemed particularly useful for Delaware Valley Communities

Organizing the Tools

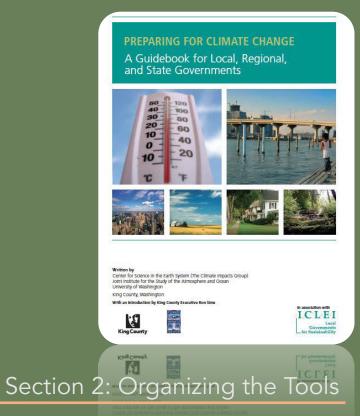


- 1. Planning Process Tools
- 2. Decision Support Tools
- 3. Data Analysis and Interpretation Tools
- 4. Communication and Stakeholder Engagement Tools



- **1.** Planning Process Tools
- 2. Decision Support Tools
- 3. Data Analysis and Interpretation Tools
- 4. Communication and Stakeholder Engagement Tools

 Outlines a sequence of planning steps to effectively plan for and build resilience



Preparing for Climate Change: A Guidebook for Local, Regional, and State Governments



- 1. Planning Process Tools
- **2.** Decision Support Tools
- 3. Data Analysis and Interpretation Tools
- 4. Communication and Stakeholder Engagement Tools

 Uses data, questionnaires, checklists, and decision trees to help practitioners draw conclusions and prioritize actions



WHAT ARE NATURE-BASED SOLUTIONS?

Nature offers a powerful set of tools for addressing hazards like flooding and Nature offers a bowerful set of tools for addressing hazards like flooding and

WHAT ARE NATURE-BASED SOLUTIONS?

Naturally Resilient Communities



Section 2: Organizing the Tools

- 1. Planning Process Tools
- 2. Decision Support Tools
- 3. Data Analysis and Interpretation Tools
- 4. Communication and Stakeholder Engagement Tools

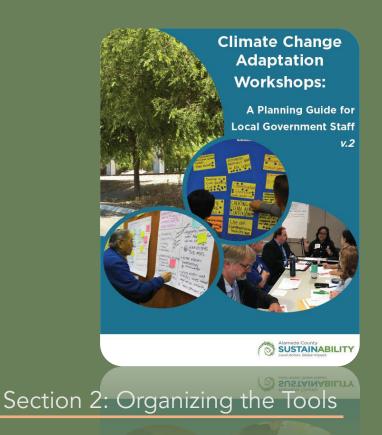
Provides data, data
 visualization, and data
 interpretation in order to
 support a planning or
 decision making process
 and/or educate
 audiences



Climate Central: Surging Seas



- 1. Planning Process Tools
- 2. Decision Support Tools
- 3. Data Analysis and Interpretation Tools
- **4.** Communication and Stakeholder Engagement Tools



 Engages diverse stakeholders and promote community dialogue and knowledge transfer

Climate Change Adaptation Workshops: A Planning Guide for Local Government Staff



Utilizing Resiliency Tools



Three Approaches to Resiliency PlanningBuilding a Toolkit

Section 2: Utilizing Resiliency Tools



Questions?

Miles Owen mowen@dvrpc.org

PC WHITE PAPER

An Assessment of Planning Tools for Climate Change Resiliency in the Delaware Valley



https://www.dvrpc.org/Products/19030



May 2020