















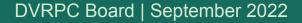




Transportation Improvement Program New Jersey TIP (FY2022-2025)









Gloucester County Multi-Purpose Trail Extension - Glassboro Elk Trail Gloucester County | Federalize Project

TIP Amendment

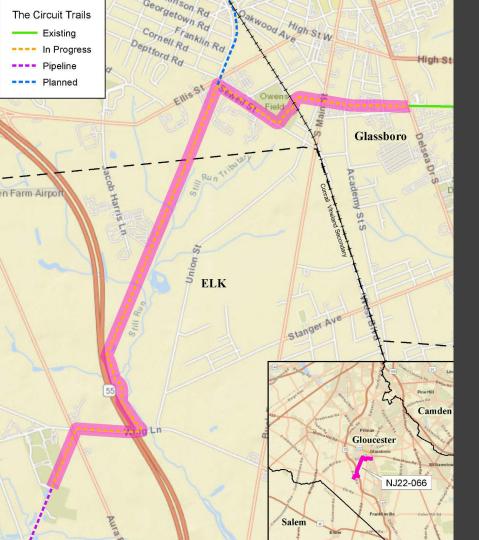
Action: Federalize project by replacing \$3.9 M STATE-DVRPC (\$596,000 17-STATE-DVRPC/\$3.304 M 18-STATE DVRPC) with \$3.9 M STBGP-PHILA for FY23 Construction phase (CON)

Reason: New Gloucester County/ DVRPC LCD project graduating into TIP, but ineligible for Urbanized funds: Porchtown Road (CR 613) Bridge over Still Run at Iona Lake (Bridge 10-K-4). Needs STATE-DVRPC funds

Background:

- STATE-DVRPC funding has less of a time constraint for authorization than STBGP-PHILA funds
- DB #2216 ineligible for STBGP-PHILA Urbanized Area funds in DVRPC region because location is currently within Urbanized Area of SJTPO





- From Elk Township Recreation
 Park via Whig Lane (CR 619),
 over Route 55 to Sewell Street
 (CR 628), and past the Glassboro
 Sports Complex to end at Delsea
 Drive (NJ 47) on the Rowan
 University campus near Girard
 Avenue in Glassboro Borough
- Links to existing and planned NJ TRANSIT Facilities and planned bike lane link to Glassboro Arts District





TIP ACTION | Proposed - NJ

- Request Board Approval of TIP Amendment
- Gloucester County Multi-Purpose Trail Extension -Glassboro Elk Trail

Federalize project by replacing \$3.9 M STATE-DVRPC (\$596,000 17-STATE-DVRPC / \$3.304 M 18-STATE DVRPC) with \$3.9 M STBGP-PHILA for FY23 CON

North Olden Avenue (CR 622), Bridge over Amtrak

Mercer County | Study & Development Graduate/Add Project to TIP

TIP Amendment

Action: Add \$21.1 M Bridge Formula Program-funded (BFP) Study & Development graduate project to the TIP for as follows:

• FY23 PE: \$1.5 M

• FY25 ROW: \$1M

• FY26 CON: \$15 M

• FY24 DES: \$1.6 M

• FY25 UTI: \$2 M

Reason: Ready for PE in FY23

Background:

NJDOT is improving safety by replacing North Olden Ave bridge over Amtrak Northeast
Corridor and bridge over Amtrak Service Road (Dirt Path) approximately two feet higher
than the existing bridges to increase the vertical clearance over
the Amtrak Northeast Corridor



- Replacing 2 bridges
- Replacing roadway pavement, storm drainage system, and guide rails will be replaced within the project limits
- Sidewalk and Curb ramp reconstruction for ADA compliance
- Widening travel lanes to 18' on the bridges to match lane widths at approach roadways
- Additional ROW parcels to be acquired
- Relocation and maintained service of public utilities







TIP ACTION | Proposed - NJ

- Request Board Approval of TIP Amendment
- North Olden Avenue (CR 622), Bridge over Amtrak
 Add \$21.1 M Bridge Formula Program-funded
 (BFP), Study & Development graduate project into the S/TIP as follows:
 - \$1.5 M BFP for FY23 PE
 - \$1.6 M BFP for FY24 DES
 - \$1 M BFP for FY25 ROW
 - \$2 M BFP for FY25 UTL
 - \$15 M BFP for FY26 CON

Electric Vehicle Infrastructure Program

Statewide | Add New Statewide Line Item to the S/TIP

TIP Amendment

Action: Add a new \$68.227 M National Electric Vehicle Formula Program (NEVFP) funded Statewide Program line item, Electric Vehicle Infrastructure Program into the S/TIP for ERC as follows:

FY23: \$16.067 M
 FY24: \$16.709 M
 FY25: \$17.378 M
 FY26: \$18.073 M

Reason: New Formula funds from IIJA/BIL. Aligns S/TIP with State FY2023 Capital Program. Line item will fund the establishment of an electric vehicle infrastructure program to fund strategic deployment of electric vehicle (EV) charging infrastructure and establish an interconnected network to facilitate data collection, access, and reliability

Background:

- NEVFP-funded projects have not been identified yet
- National Electric Vehicle Infrastructure (NEVI) funds will not be made available to a State for obligation until the State has State Electric Vehicle Infrastructure Deployment Plan submitted to the Federal Joint Office of Energy and Transportation, and FHWA has approved it



Eligible Uses for Vehicle Infrastructure Program

- Acquisition and installation of network-connected electric vehicle charging infrastructure
- Development phase activities relating to the acquisition or installation of electric vehicle charging infrastructure
- Operating and maintenance cost assistance for EV charging infrastructure acquired or installed under the program (for up to 5 years)
- Acquisition or installation of traffic control devices located in the
- right-of-way to provide directional information to EV charging infrastructure acquired, installed, or operated under the NEVI Formula program, and on-premises signs
- Mapping and analysis activities to evaluate demand for EV charging infrastructure
- Data sharing about EV charging infrastructure

PROTECT

Statewide | Add New Statewide Line Item to the S/TIP

TIP Amendment

Action: Add a new \$335.847 M Promoting Resilient Operations for Transformative, Efficient, and Cost-Saving Transportation (PROTECT) PROTECT Formula Program (PFP) funded Statewide Program line item, PROTECT into the S/TIP for FY23-FY31 ERC

Reason: New Formula funds from IIJA/BIL. Aligns S/TIP with State FY2023 Capital Program. Provides funds to make transportation infrastructure more resilient to future weather events and other natural disasters by focusing on resilience planning, making resilience improvements to existing transportation assets and evacuation routes, and addressing at-risk highway infrastructure **Background:**

PROTECT-funded projects have not been identified yet



Eligible uses for PROTECT

- Adapting existing infrastructure or new construction to withstand extreme weather events and other physical hazards that are becoming more common and intense
- Natural or green infrastructure to buffer future storm surges and provide flood protection
- Aquatic ecosystem restoration
- Improve resilience of transportation networks that serve traditionally underserved and underrepresented communities, particularly during natural disasters and evacuations



Carbon Reduction Program

Statewide | Add New Statewide Line Item to the S/TIP

TIP Amendment

Action: Add a new \$122.871 M Carbon Reduction (CR) (\$4.381 M CR-B50K200K / \$4.381 M CR-B5K50K / \$103.377 M CR-FLEX / \$10.732 M CR-L5K) funded, Carbon Reduction Program, into the S/TIP for ERC FY23-FY31

Reason: New Formula funds from IIJA/BIL. Aligns S/TIP with State FY2023 Capital Program. Line item provides for projects that will reduce transportation emissions and the development of carbon reduction strategies

Background:

CR-funded projects have not been identified yet



Eligible Uses for Carbon Reduction Program

- Traffic monitoring and management
- Truck stop and port electrification
- Constructing, planning, and design of on-road and off-road trail facilities
- Efforts to reduce community impacts of freight movement
- Deployment of alternative fuel vehicles including purchase or lease of zero-emission construction equipment and vehicles
- Diesel engine retrofits
- Electric vehicle charging infrastructure







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TIP ACTION | Proposed - NJ

- Request Board Approval of TIP Amendments
- Electric Vehicle Infrastructure Program
 Add a new \$68.227 M National Electric Vehicle Formula Program (NEVFP) funded Statewide Program line item, Electric Vehicle Infrastructure Program into the S/TIP for FY23-FY26 ERC
- PROTECT

Add a new \$335.847 M Promoting Resilient Operations for Transformative, Efficient, and Cost-Saving Transportation (PROTECT) PROTECT Formula Program (PFP) funded Statewide Program line item, PROTECT into the S/TIP for FY23-FY31 ERC

Carbon Reduction Program

Add a new \$122.871 M Carbon Reduction (CR) (\$4.381 M
CR-B50K200K/ \$4.381 M CR-B5K50K/ \$103.377 M CR-FLEX/ \$10.732
M CR-L5K) funded, Statewide Program line item, Carbon Reduction
Program, into the S/TIP for FY23-FY31 ERC



SJ BRT/Avandale Park & Ride NJ TRANSIT | Add Project Back into the TIP

TIP Amendment

Action: Add a previous TIP project, the SJ BRT/Avandale Park & Ride, back into the TIP with prior year FY21 unobligated funds in the amount of \$2 M SECT 5339/5307 for FY22 ERC

Reason: FY21 unobligated funds must be shown in FY22 of the TIP for FTA to reimburse NJ TRANSIT for work completed

Background:

- Project included resurfacing the lot, expansion of parking, a new bus canopy shelter, dynamic signage, lighting and upgraded security cameras
- This initial work addressed many of the needs for South Jersey Bus Rapid Transit (SJBRT) at Avandale Park and Ride, while NEPA work for the SJBRT is underway







TIP ACTION | Proposed - NJ

Request Board Approval of TIP Amendment

SJ BRT/Avandale Park & Ride

Add a previous TIP project, the SJ BRT / Avandale Park & Ride, back into the TIP with prior year FY21 unobligated funds in the amount of \$2 M SECT 5339 / 5307 for FY22 ERC

Locomotive Overhaul

NJ TRANSIT | Federalize Project and Add New Phase

TIP Amendment

Action: Federalize the line item by adding \$13.115 M (4.085 SECT 5307) / 9.030 M SECT 5337) of federal funds to the formerly STATE-only funded program line item for a new Engineering / Right-of-Way / Construction (ERC) phase in FY22

Reason: FY21 unobligated funds must be shown in FY22 of the TIP to be used by NJ TRANSIT; rebalancing of Transit Program

Background:

Provides for the cyclic overhaul of locomotives based on manufacturer replacement standards to support the equipment through its useful life





TIP ACTION | Proposed - NJ

Request Board Approval of TIP Amendment

Locomotive Overhaul

Federalize the line item by adding \$13.115 M (4.085 SECT 5307 / 9.030 M SECT 5337) of federal funds to the formerly STATE-only funded program line item for a new ERC phase in FY22

Preventive Maintenance- Rail

NJ TRANSIT | Program Line Item Increase

TIP Modification

Action: Increase program line item by \$34.889 M (31.789 SECT 5337 / \$3.1 M SECT 5307) for FY22 Capital Acquisition (CAP) from \$15.348 M to \$50.237 M

Reason: FY21 unobligated funds must be shown in FY22 of the TIP to be used by NJ TRANSIT; rebalancing of Transit Program

Background:

- Provides funding for the overhaul of rail cars and locomotives and other preventive maintenance costs in accordance with federal funding guidelines as defined in the National Transit Database Reporting Manual and federal law
- Service in DVRPC region: Trenton Station, Hamilton Station, Princeton Station, and Princeton Junction





TIP ACTION | Proposed - NJ

Request Board Approval of TIP Modification

Preventive Maintenance- Rail Increase program line item by \$34.889 M (31.789 SECT 5337 / \$3.1 M SECT 5307) for FY22 Capital Acquisition (CAP) from \$15.348 M to \$50.237 M

Route 295/42/I-76, Direct Connection, Contract 4

NJDOT | Delay Funding

Administrative TIP Modification

Action: Delay CON from FFY23-FFY26 to FFY24-FFY26

Reason: To make consistent with NJDOT SFY2023 Capital Program

and based on Contract 4's updated schedule

Background:

- Delays \$43.339M NHFP-HWY from FY23 to FY24
- Delays \$66.661M NHPP from FY23 to:
 - FY24: +\$20M NHPP
 - FY25: +\$20M NHPP
 - FY26: +\$26.661M NHPP
- Administrative action based on MOU





www.dvrpc.org/TIP



DVRPC Board Meeting September 22, 2022



FY23 Work Program Amendments



Background

- With the passage of the IIJA, DVRPC staff are deeply engaged in leveraging competitive funding programs for improvements to our region
- IIJA Planning (PL) funds are allocated to state DOTs to be distributed to MPOs
- NJDOT provided a funding distribution formula for its three MPOs in the summer
- PennDOT provided a funding distribution formula on 9/14, and we are in discussions to better understand various implications



Background

- ▶ Five work program amendments are proposed to incorporate a portion of expected funds this FY:
 - Technical Assistance to Member Governments
 - Transportation Improvement Program
 - Competitive Program and Project Management
 - NJ Travel Monitoring Equipment and Supplies
 - Travel Monitoring Supplies
- ▶ The Land Use File update was approved at the June Board to use new PL \$ when allocated



Technical Assistance to Member Governments

- Add \$150,000 from NJDOT allocated PL funds
 - To conduct internal and external coordination
 - To maintain an up to date IIJA webpage and communications
 - To conduct customized IIJA consultations
 - To focus on disadvantaged communities



Transportation Improvement Program

- Add \$100,000 from NJDOT allocated PL funds
 - To coordinate IIJA applicants on match feasibility
 - To provide letters of support for applications
 - To amend the TIP as per IIJA grant awards



Competitive Program and Project Management

- Add \$80,000 from NJDOT allocated PL funds
 - To support project sponsors with guidance on federal rules and regulations to facilitate traditional and nontraditional construction projects



NJ Travel Monitoring Equipment and Supplies

- Add \$60,000 from NJDOT allocated PL funds to a newly created project
 - To support the purchase of bicycle, pedestrian and vehicular counting equipment and supplies necessary to maintain the count program and keep them in good working order to support travel monitoring activities in the NJ counties



Travel Monitoring

- Add \$62,500 (\$50,000 from new PL funds from the IIJA contingent on allocation of these funds from PennDOT, and \$12,500 DVRPC Local Match)
 - To support the purchase of bicycle, pedestrian and vehicular counting supplies to keep the PA equipment in good working order

Action Proposed: That the Board amend the FY23 UPWP as follows:

- Technical Assistance for Member Governments Add \$150,000
- Transportation Improvement Program Add \$100,000
- Competitive Program and Project Management Add \$80,000
- NJ Travel Monitoring Equipment & Supplies –
 Add \$60,000/new project
- Travel Monitoring Add \$62,500 (\$50,000 new PL funds from PennDOT, \$12,500 DVRPC Local Match)



DVRPC Board Meeting September 22, 2022



Thank You!

Sean Greene DVRPC Board September 22, 2022

CMAQ Performance Plan and Performance Targets



Background

What is CMAQ?

 Federal program to fund projects that reduce congestion and improve air quality

MAP 21 and FAST ACT require US DOT to establish Transportation Performance Measures for the CMAQ program

- Known as PM3 regulation
 - Subpart G Congestion Measures
 - Subpart H On-Road Mobile Source Emissions



Today's Presentation

- PM3 Requirements
- Performance Measures
- First Period Performance Plan (2018-2021)
- Second Period Performance Targets (2022-2025)
- Requested Action



FHWA PM3 Rule Requires...

- Establishment of 2-and 4-year Targets (Regions >1M people and in NAA)
 - Congestion Measures for UZA
 - UZAs >1M and 200K people
 - CMAQ Emissions Reductions Measures for MPO region and state
- 2. Final Performance Plan & Baseline Plan
- 3. Plans due to FHWA by October 1, 2022



What are the Congestions Measures?

Unified targets for entire UZAs

- 1. Peak Hour Excessive Delay (PHED)
 - Annual per capita delay on the NHS system
 - Data extracted from RITIS Probe Data Analytics
 Suite
- 2. Percent Non-SOV travel
 - U.S. Census 5-Year Estimates



How Were the Targets Established?

Discussion and Collaboration

- MPOs and DOTs in affected UZAs held a series of meetings during each step (2018, 2020, and 2022)
 - Philadelphia, New York, Allentown, Trenton UZAs
- Targets established by consensus and approved by DVRPC Board (2018 and 2022)



Congestion Targets and 4-Year Performance – PHED (2018-2021)

Baseline (annual hours per capita)	Two-Year Target Optional (annual hours per capita)	Two-Year Performance Measurement (annual hours per capita)	Four-Year Target (annual hours per capita)	Four-Year Performance (annual hours per capita)
Philadelphia				
16.8	17.0	14.6	17.2	13.1
New York-Ne				
20.0	N/A	22.2	22.0	20.9



Congestion Targets and 4-Year Performance – Percent Non-SOV Travel (2018-2021)

Baseline	Two-Year Target	Two-Year Performance Measurement	Four-Year Target	Four-Year Performance
Philadelphia				
27.9%	28.0%	28.2%	28.1%	30.0%
New York-Ne				
51.6%	51.6%	51.7%	51.7%	62.1%

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Performance Results

Four-year Performance surpassed or is meeting two- and four-year targets for Philadelphia and New York-Newark UZAs.



Performance Targets

- For the Second Performance Period (2022-2025)
 Targets required for UZA>200K people
 - Philadelphia
 - New York-Newark
 - Trenton
 - Allentown
- DVRPC Adopted Targets at July 2022 Board Meeting



Congestion Targets – PHED (2022-2025)

Baseline (annual hours per capita)	Two-Year Target (annual hours per capita)	Four-Year Target (annual hours per capita)			
Philadelphia UZA					
13.1	15.2	15.1			
New York-Newark UZA					
20.9	22.0	21.0			
Trenton UZA					
3.4	5.7	5.7			
Allentown UZA					
7.1	8.4	8.4			



Congestion Targets – Percent Non-SOV Travel (2022-2025)

Baseline	Two-Year Target	Four-Year Target			
Philadelphia	Philadelphia UZA				
30.6%	30.0%	30.0%			
New York-Newark UZA					
52.4%	52.4%	52.5%			
Trenton UZA					
26.4%	26.5%	26.8%			
Allentown UZA					
19.7%	18.6%	18.6%			



Emissions Performance Measure

CMAQ Program Eligibility

- Projects must show emissions reductions
- DOTs report emissions benefits for authorized projects in annual report to FHWA
- Data is stored in FHWA CMAQ Public Access
 System (PAS)



Emissions Reductions Requirements

Targets

- DOTs must set statewide 2- and 4-Year Targets for emissions reductions from CMAQ funded projects
- MPOs must either develop targets or adopt state targets for MPO area
- DVRPC is adopting state developed targets



How Were the Targets Established?

- Discussion and Collaboration
 - MPOs and DOTs collaborated on Emissions
 Measure for regional and statewide emissions
 targets and performance
 - Statewide targets incorporate MPO targets



Emissions Results - Pennsylvania (2018-2022)

	Emissions Reduction (Kg/day)			
Pollutant	2-year Target	2-year Performance	4-year Target	4-year Performance
VOC Emissions	37.61	142.8	69.31	217.10
NO _x Emissions	23.42	652.4	42.50	928.70
PM Emissföns	1.08	24.21	2.06	33.02



Emissions Results - New Jersey (2018-2022)

	Emissions Reduction (Kg/day)			
Pollutant	2-year Target	2-year Performance	4-year Target	4-year Performance
VOC Emissions	1.45	47.54	2.86	73.70
NO _x Emissions	7.453	454.32	14.86	683.83
PM Emissfons	2.627	94.73	5.25	111.81



Performance Results

- Four-year Performance surpassed the targets for PA and NJ
 - Transit flex emissions benefits included in PAS for first time in 2018
 - TDM projects that expected to be listed as "recurring" were counted in 2018
 - In NJ, Statewide projects contributed to regional goals



Emissions Targets- Pennsylvania (2022-2025)

	Emissions Reduction (Kg/day)		
Pollutant	2-year Target	4-year Target	
VOC Emissions	9.66	19.32	
NO _x Emissions	51.28	102.56	
PM Emissfons	4.07	8.14	



Emissions Targets- New Jersey (2022-2025)

	Emissions Reduction (Kg/day)		
Pollutant	2-year Target	4-year Target	
VOC Emissions	2.84	5.41	
NO _x Emissions	9.51	17.49	
PM Emissfons	24.25	45.96	



Performance Plan

Applicability and Requirements

- All measures
 - Four-year performance (2018-2022)
 - Congestion measures for UZA (Philadelphia and NYC-Newark)
 - Mobile Source Emissions for MPO area separated by state
 - Baseline and Targets (2022-2025)
 - Additional UZAs (Trenton and Allentown)
- Emissions measures
 - List projects contributing to performance
 - Identify projects that have changed, been added or deleted
 - Identify projects that support 4-year targets
 - Narrative description of programed projects and benefits



Action Proposed

That the DVRPC Board adopt the CMAQ mobile-source emissions performance targets established by PennDOT and NJDOT and approves DVRPC to submit the CMAQ Performance Plan that demonstrates the progress towards meeting the targets for the period 2018-2021 and identifies baseline conditions and targets for the second performance period (2022-2025) to the state DOTs for submission to FHWA.



Thank You!



Questions?

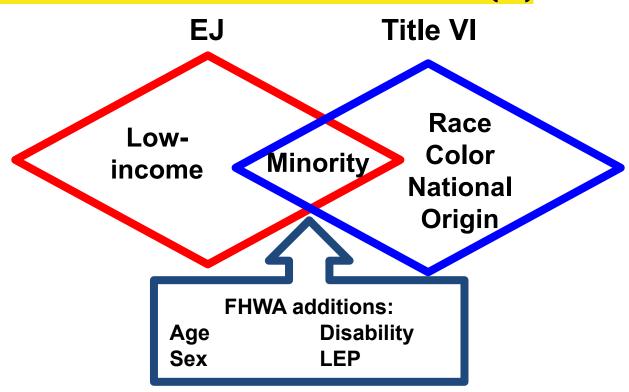
Sean Greene | sgreene@dvrpc.org



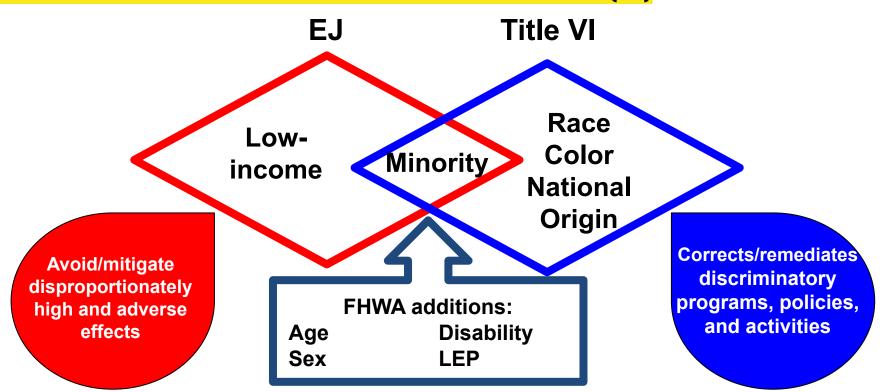
Title VI, environmental justice, and equity at DVRPC

Shoshana Akins, sakins@dvrpc.org



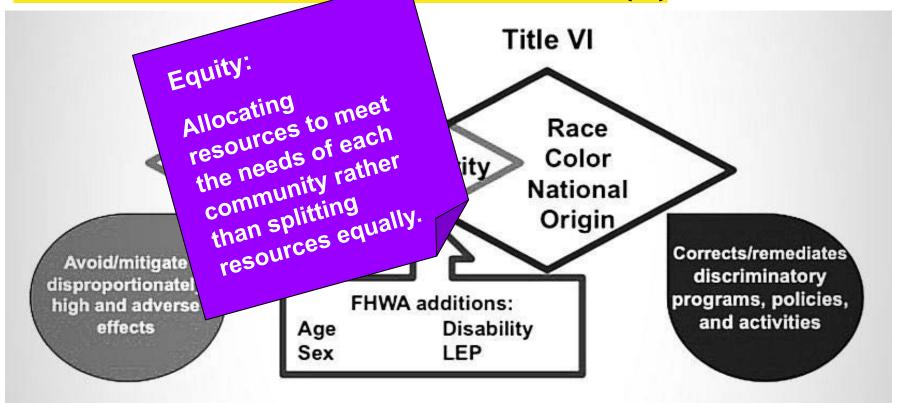






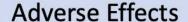
Source: Federal Highway Administration, 2017





Source: Federal Highway Administration, 2017



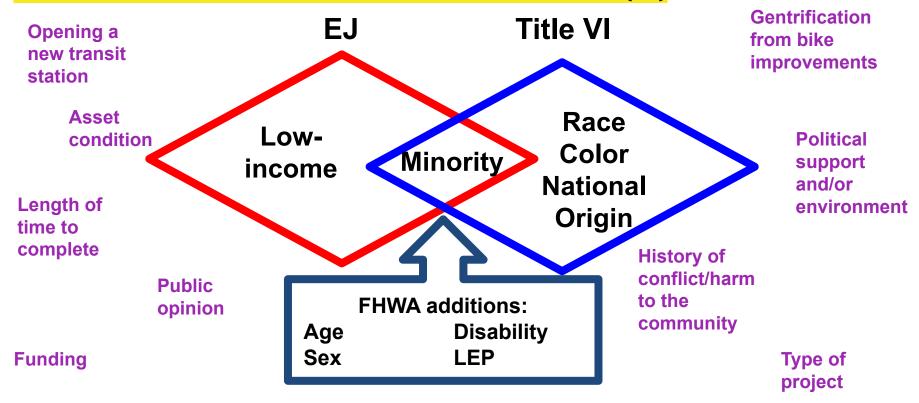


- Air and water pollution, soil contamination
- Destruction or disruption of man-made or natural resources
- Adverse impacts on community cohesion or economic vitality
- Noise and vibration
- Effects on property values

Benefits

- Decrease in travel time
- Improved air quality
- Expanded employment opportunities
- Better access to transit options
- Improved quality of transit service
- Increased property values





Source: Federal Highway Administration, 2017

DVRPC implementation: Indicators of Potential Disadvantage (IPD)

The Census collects data to meet all the needs of federal compliance.

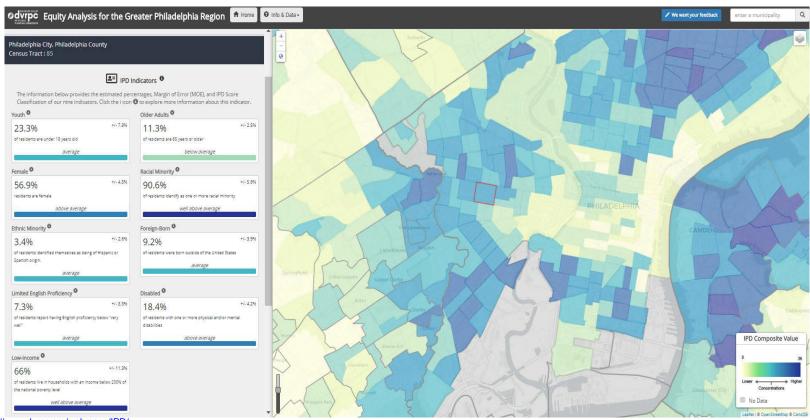
DVRPC matched the population groups identified in Title VI and EJ with the ACS data tables to create the IPD.

Source: Technical Memo for IPD 2.0 https://www.dvrpc.org/Products/TM19007

Indicator	ACS Data Table	Protected Population	Authorizing Source
Youth	B09001: Population under 18 Years by Age	Age	FHWA's Title VI Program and Additional Nondiscrimination Requirements
Older Adults	S0101: Age and Sex	Age	FHWA's Title VI Program and Additional Nondiscrimination Requirements
Female	S0101: Age and Sex	Sex	FHWA's Title VI Program and Additional Nondiscrimination Requirements
Racial Minority	B02001: Race	Race and Minority	Executive Order 12898, Title VI of the Civil Rights Act of 1964, FHWA's Title VI Program and Additional Nondiscrimination Requirements, and Title VI Requirements and Guidelines
Ethnic Minority	B03002: Hispanic or Latino Origin by Race	Minority and National Origin	Executive Order 12898, Title VI of the Civil Rights Act of 1964, FHWA's Title VI Program and Additional Nondiscrimination Requirements, and Title VI Requirements and Guidelines
Foreign Born	B05012: Nativity in the United States	National Origin	Title VI of the Civil Rights Act of 1964, FHWA' Title VI Program and Additional Nondiscrimination Requirements, and Title VI Requirements and Guidelines
Limited English Proficiency	S1601: Language Spoken at Home	Limited English Proficiency and National Origin	Title VI of the Civil Rights Act of 1964, FHWA's Title VI Program and Additional Nondiscrimination Requirements, and Title VI Requirements and Guidelines
Disabled	S1810: Disability Characteristics	Disability	FHWA's Title VI Program and Additional Nondiscrimination Requirements
Low-Income	S1701: Poverty Status in the Past 12 Months	Low-income	Executive Order 12898 and FHWA's Title VI Program and Additional Nondiscrimination Requirements



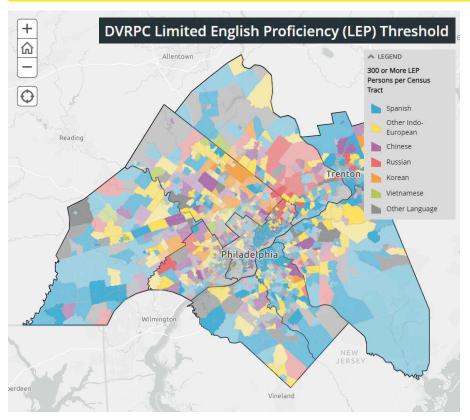
DVRPC implementation: Indicators of Potential Disadvantage (IPD)

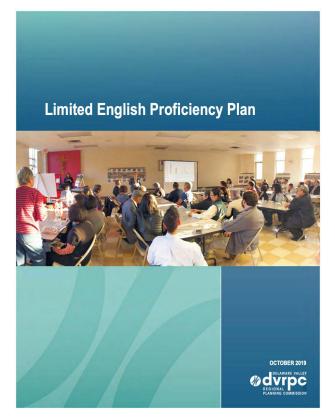


Source: https://www.dvrpc.org/webmaps/IPD/



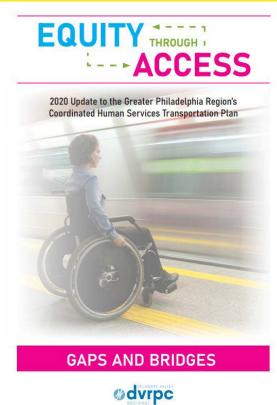
DVRPC implementation: Limited English Proficiency (LEP) Plan



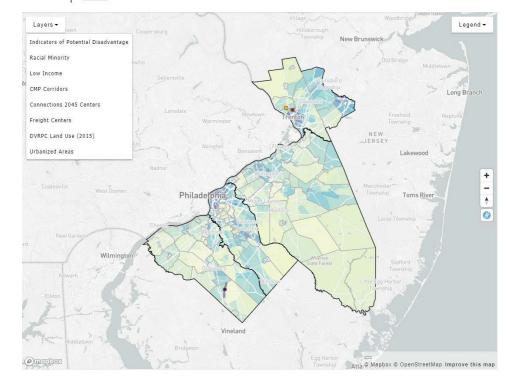




DVRPC implementation: federal + state funding



Odvrpc TIP FY2022 TIP for NJ (FY22-FY25)





Work Program projects addressing Title VI + EJ concerns





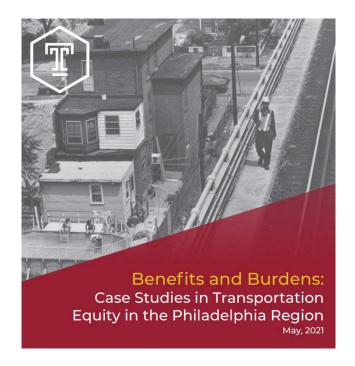
CRASHES and





Work Program projects addressing Title VI + EJ concerns





Developing federal guidance related to Title VI + EJ

EO 13985: Advancing Racial Equity and Support for Underserved Communities Through the Federal Government

Call to federal agencies to recognize + address inequities in policies/programs

EO 14008: Tackling the Climate Crisis at Home and Abroad

Address pollution + underinvestment in housing, transportation, water/wastewater infrastructure, and health care

Justice40, Climate and Economic Justice Screening Tool (CJEST), USDOT Equity Action Plan

Developing policy + implementation guidance related to EOs and IIJA





















Transportation Improvement Program
Analysis for FY2023 Pennsylvania TIP Update
(FY2023-2026)
And FY2022 New Jersey TIP Update



Jesse Buerk Manager, Office of Capital Programs jbuerk@dvrpc.org

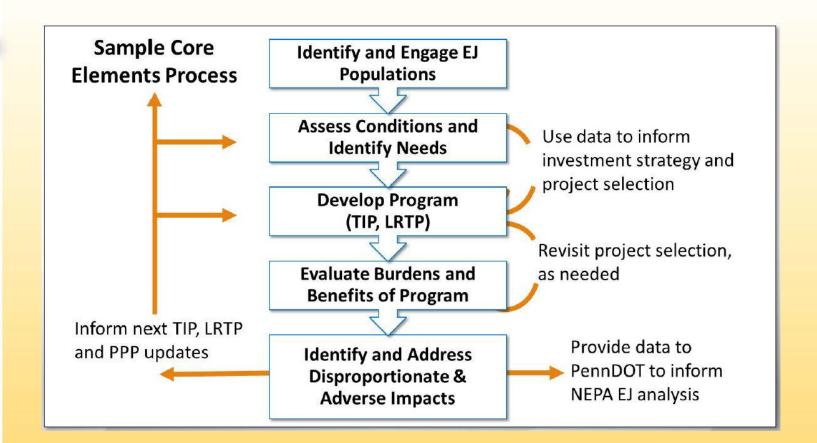
(FY2022-2025)



PennDOT/FHWA Core Elements Process

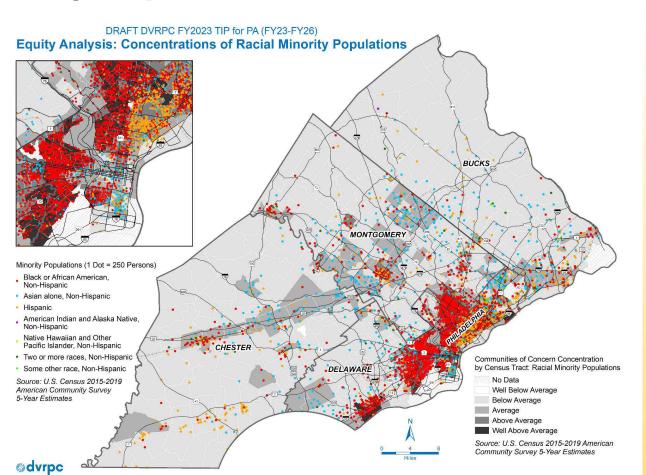


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Identify Populations

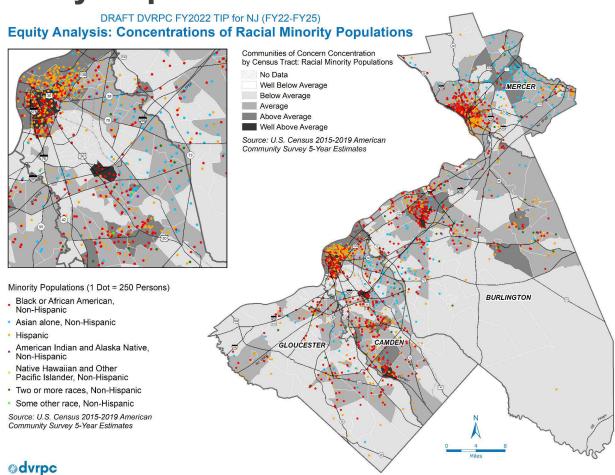




Identify Populations



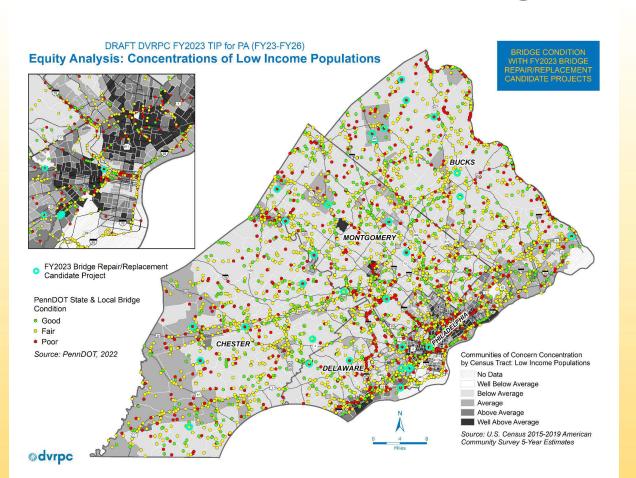
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Assess Conditions & Needs: Bridges



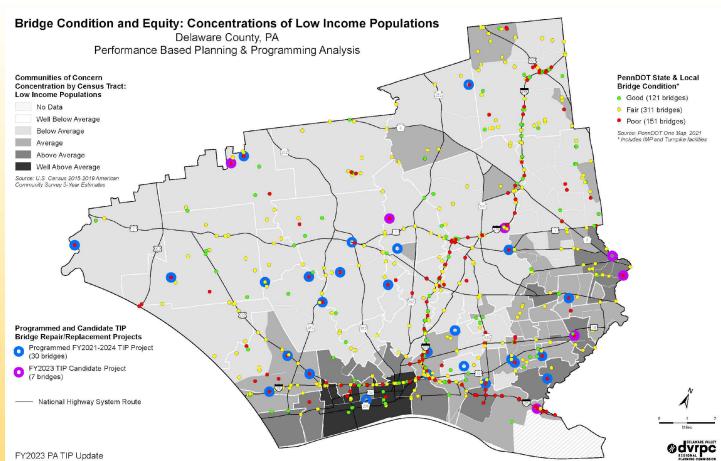




Assess Conditions & Needs: Bridges



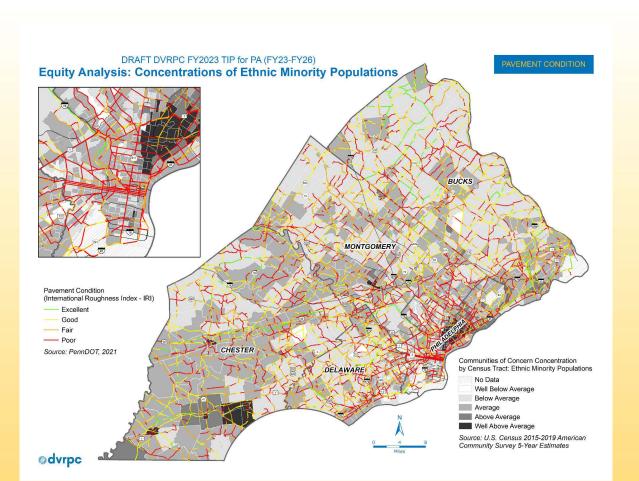
@dvrpc



Assess Conditions & Needs: Pavement



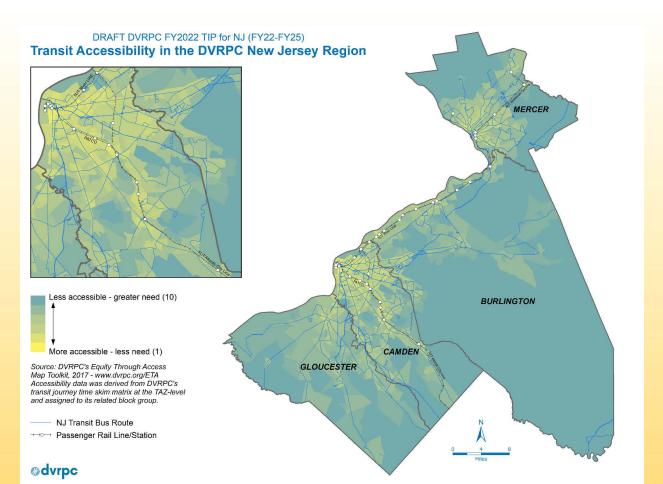




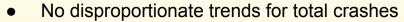
Assess Conditions & Needs: Transit Access



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Assess Conditions & Needs: Safety 2015-2019 Crash Data (Pennsylvania)



- Bicycle and pedestrian crashes overrepresented in communities with above average and well above average concentrations of low-income and minority populations
 - Including disproportionate numbers of Killed and Severe Injury crashes (KSI)
- Trend most pronounced for pedestrian crashes in communities with well above average concentrations of low-income populations
 - Confirms findings from DVRPC's Crashes and Communities of Concern report

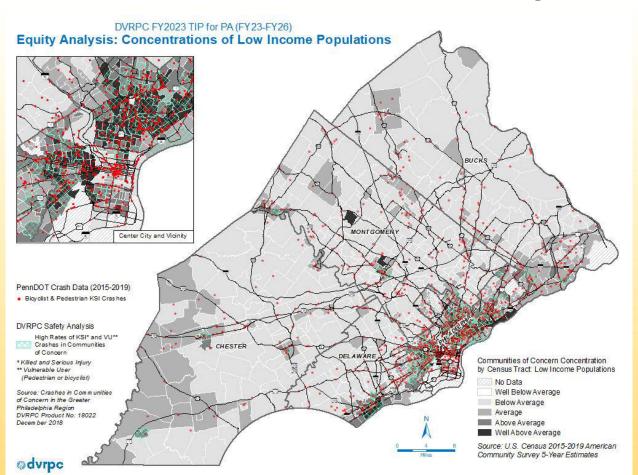


Program

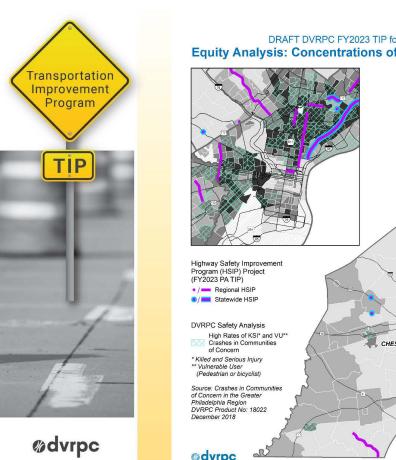
Assess Conditions & Needs: Safety

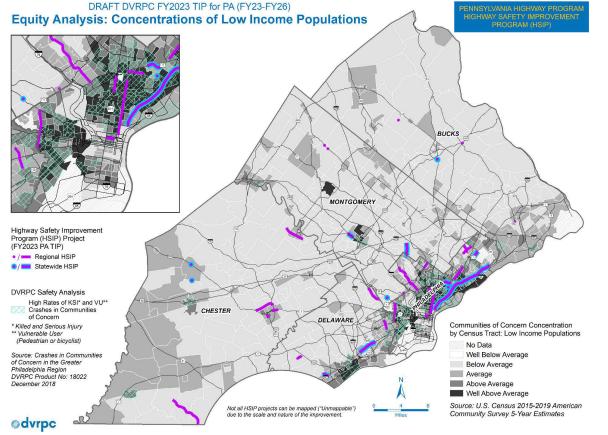


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Assess Conditions & Needs: Safety

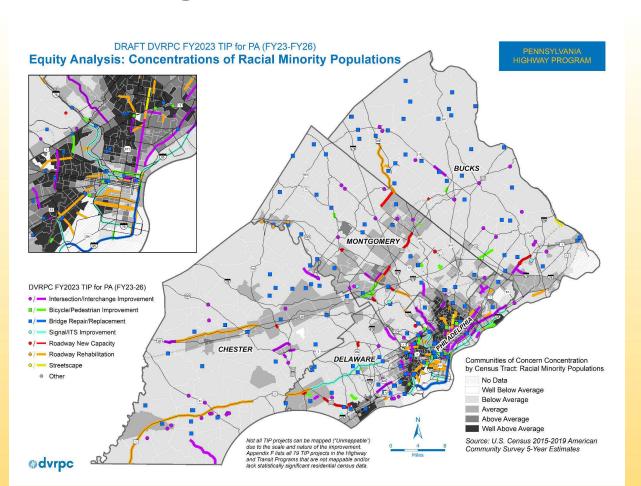




Evaluate Program: Investment







Economic Investment

Transportation Improvement Program
TĮP
1
1

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Population	Cost (\$ in thousands)	Percent of Investment				
All IPDs (Score)						
Well Below Average (1-7)	0	0%				
Below Average (8-14)	750,374	8%				
Average (15-21)	3,295,535	37%				
Above Average (22-28)	4,412,140	49%				
Well Above Average (29-36)	491,127	6%				
Low-Income Only (Percentage of Census Tract)						
Well Below to Average (0.0 – 36.4%)	3,280,561	37%				
Above to Well Above (36.5 - 100.0%)	5,668,615	63%				
Racial Minority Only (Percentage of Census Tract)						
Well Below to Average (0.0 - 48.7%)	6,202,224	69%				
Above to Well Above (48.8 - 100.0%)	2,746,952	31%				
Ethnic Minority Only (Percentage of Census Tract)						
Well Below to Average (0.0 – 16.2%)	6,248,656	70%				
Above to Well Above (16.3 - 100.0%)	2,700,520	30%				
Total Cost of Mapped Projects (FY23 – FY34) (\$000)	\$8,949,176	100%				

Benefits and Burdens Analysis

Transportation Improvement Program
TIP
-
4
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	Project Categories	Potential Impact	FY23 PA TIP
	-New Right-of-Way -Roadway Expansion	High potential for adverse impacts	0
i	-Roadway/Bridge Maintenance -Bridge Repair or Replacement -Roadway Rehabilitation -Roadway New Capacity (minor)	Lower potential for adverse impacts/ potentially beneficial	161
/	-Safety; Bike/Ped Improvements -Intersection/Interchange Improvements -Transit Improvements -Signal/ITS Improvements -Streetscape -Studies	Low potential for adverse impact/ inherently beneficial	162
	-Other	Unknown/ little to no potential for adverse impact/ inherently beneficial	35

Projects in

Projects as Percentage

0%

45%

45.2%

9.8%

Disproportionate & Adverse Impacts



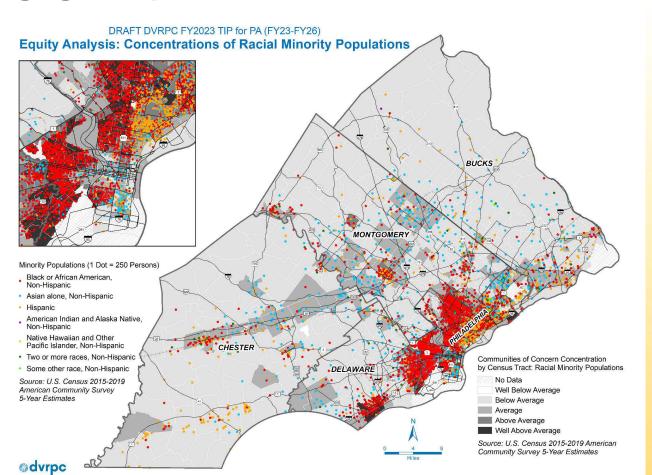
What if there are disproportionate impacts in the TIP? DVRPC can:

- Re-evaluate current selection of projects in the TIP with planning partners;
- 2. Explore and implement mitigation strategies; and/or
- 3. Use this information to inform the selection of projects for the next TIP development.

Engage Populations



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Mobility Choices:

Conversations in Three Black and Latino Communities in the Greater Philadelphia Region

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Cassidy Boulan, Assistant Manager, Bicycle Programs cboulan@dvrpc.org







Project Background

- Used surveys and focus groups to ask why people use the modes of travel that they do.
 - More qualitative data can help to create a fuller picture of transportation need.
- There are major mobility inequities in historically underserved communities of color in our region.
- This research will inform our work program and start conversations about community needs and concerns we should all consider in our work.



Research Questions



Areas Selected

- North Trenton
- Mantua + East Parkside, City of Philadelphia
- Borough of Norristown

Participation

- Primary research done in May and June 2022
- 121 surveys
- 64 focus group attendees



Engagement Methods

- Community partner interviews
- Online survey
- Intercept surveys
- Paper survey
- Focus groups



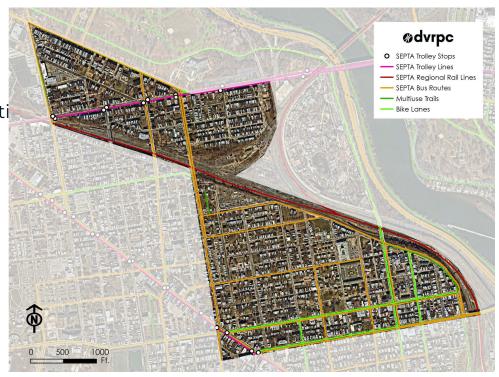


Insights: Mantua & East Parkside

Survey Participants: 52

Focus Group Participants: 25

- Population: ~10,000
- 75% Black, 13% White, 4% Asian, 4% Lati
 4% Other
- Journey to Work:
 - o 32% Transit
 - 7.5% Walk
 - 4.8% Bike
- 33.6% zero car households
- Median Household Income: ~\$23,000





Insights: Mantua & East Parkside



"The pandemic changed a lot for me. I used to use transit but started driving. Now I have to drive everyone everywhere, including my kids and my elderly mother."



"I walk and use public transportation even though I don't think it's the safest because it's the most cost-effective."

Insights: Mantua & East Parkside

Personal Safety

- Most mentioned barrier to using transportation options they would like to use more.
 - Violence in community and on SEPTA
 - o Covid-19

Driving

• Driving and using car share more because it feels safer and more reliable despite concerns over cost, traffic, environmental impacts.

Traffic Safety

- Concerned most by driver behavior
- Some expressed the need for better investment in protected bicycle infrastructure and street lighting.

Transit

- Cleanliness and personal safety were major concerns related to using transit.
- Several focus group participants used to take SEPTA before the pandemic, but have no plans to go back.

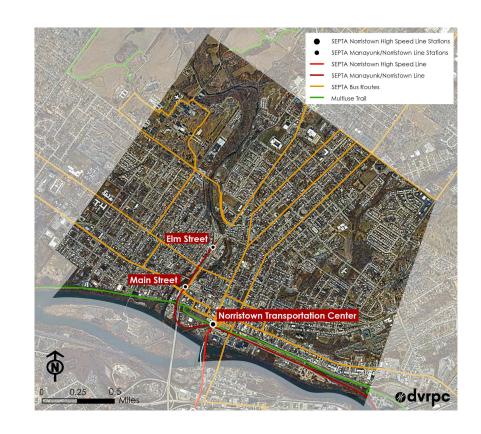


Insights: Norristown

Survey Participants: 12

Focus Group Participants: 27

- Population: ~34,000
- 37% Black, 27% Latino, 28% White
- Journey to Work:
 - 9.5% Transit
 - o 6.1% Walk
 - o 1.3% Bike
- 13.3% zero car households
- Median Household Income: ~\$54,000





Insights: Norristown



"I feel a lot safer using a taxi or cab or driving myself because you feel safer when you are on your own and have control over your own things... This has changed a lot since the whole pandemic issue... We also have a lot of muggers on public transit so it's best to be on your own."



"I work during the weekends - that's when I work the most. I need the buses working as well."

Insights: Norristown

Traffic Safety

- High speed and reckless driving
- Insufficient pedestrian infrastructure
- People would bike more if there were bike lanes

Accessibility

Sidewalks are in poor condition or do not exist

Norristown Transportation Center

- NTC feels dirty and unsafe
- Inaccessible for wheelchairs and strollers

Reliability

- Bus service is infrequent and unreliable
- Most preferred using a private car for work
 - Many preferred destinations could only be reached by car
 - Some use rideshare, even though it's expensive

Insights: North Trenton

Survey Participants: 36

Focus Group Participants: 12

- Population: ~4,100
- 74% Black, 15% Latino, 5% White
- Journey to work:
 - o 21% Transit
 - o 2.9% Walk
 - o 1.7% Bike
- 12.5% zero car households
- An estimated 10% live in the Donnelly Homes
- Median Household Income: ~\$29,000





Insights: North Trenton



"We take the bus sometimes, but the bus is always late. We always have to take the kids, but there's not a lot of room for strollers...We are taking the bus to the grocery store, but there's nowhere to put the bags on the bus."

Insights: North Trenton

Multi-Modal

 Most participants in the survey and the focus group used a combination of modes: driving, walking, biking, and taking transit based on their trips.

Land Use

 Grocery stores are a key destination and are not well-served by transit or walking. Downtown also difficult to access.

Traffic Safety

 Many felt unsafe biking and walking due to speeding and reckless driving behavior.

Personal Safety

- Trails feel too isolated, would rather bike in the street.
- At bus stops, users feel vulnerable.
 - Better street lighting and bus shelters could help.

Overall Insights

- Reliability and cost are the biggest factor in decision making for mobility.
- Personal and traffic safety were motivations in all communities
- Many participants wanted to drive more. 44% of those surveyed said they wish they could drive themselves more often, while rideshare was desired to be used more by 20% of survey participants.
- The **bus was the most desired** form of transit, with 26% of participants saying they wish they could use them more.
- Overall, there's interest in biking, walking, and transit in these communities, but there isn't the infrastructure to make it a viable option for a lot of people.

Questions for the room

- Did we ask useful questions? Provide meaningful data and do meaningful analysis?
 - Where can we best help as planners? What's our role?
 - What else do you want to know about the region, about your county, or about/from these communities?
- How do we share this information?
- Do we need to hear from other communities or constituencies?
- Are there themes that we should act on?
- What approaches to support equity are you using?
- How can DVRPC support you?



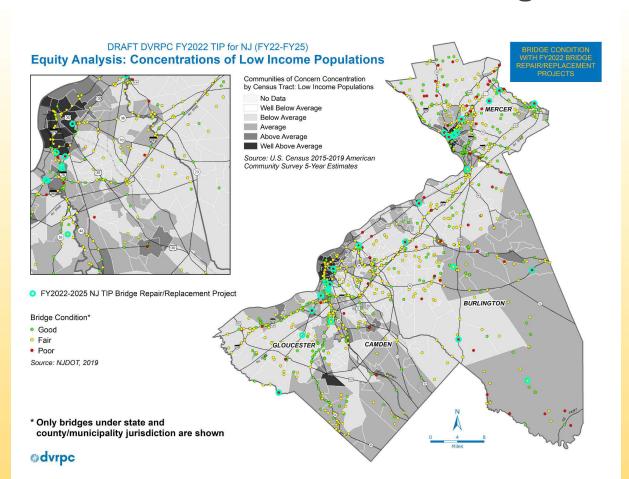
Additional Maps

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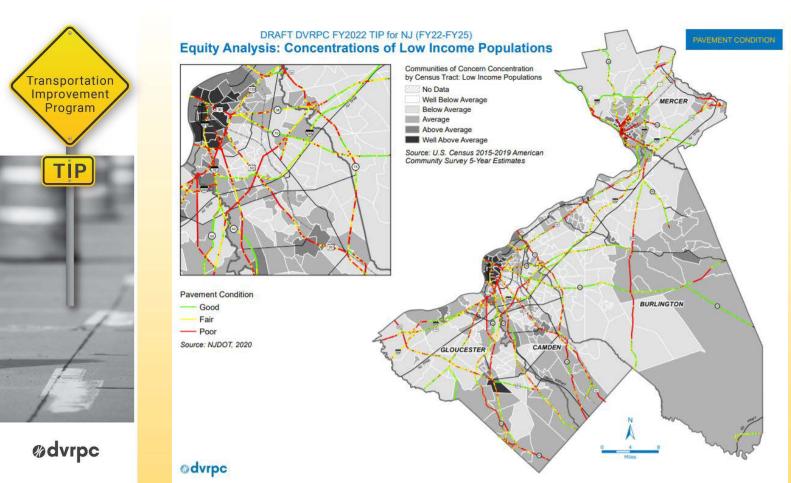
Assess Conditions & Needs: Bridges







Assess Conditions & Needs: Pavement



Assess Conditions & Needs: Transit Access



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