

May 6, 2021
DVRPC PPTF



TIP Basics and Webmap

Metropolitan transportation planning process



Planning

Where do we want to go?



dvrpc

Capital Programming

What will it take?



Project Implementation & Evaluation

*Let's do it!
How did we do?*



POLL

How knowledgeable are you about the TIP?

- This is my first time.
- I have heard about it.
- Somewhat familiar with it.
- Very familiar with it!

POLL

What do you hope to gain from tonight's TIP presentation?

Enter it in the chat box.



TIP online resources

- TIP Story Map (short and interactive)
- TIP Handbook (brochure)
- Highlights of the TIP
- Main TIP document
- TIP web map
- Effective public comment guide

POLL

Which TIP online resource have you explored before tonight?

- TIP Story Map
- TIP Handbook
- Highlights of the TIP
- Main TIP document
- TIP web map
- Effective public comment guide
- None (and it's ok!)

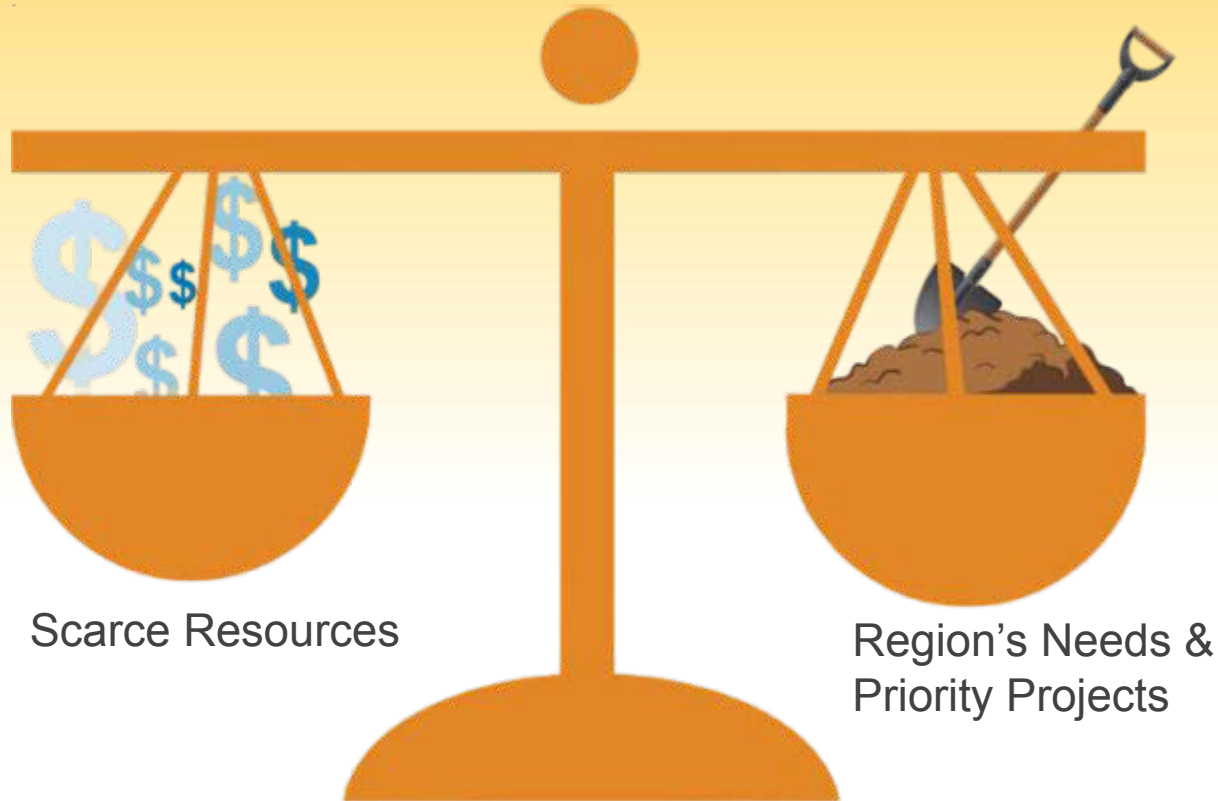
1 Region, 2 States, 2 TIPs, 1 LRP





TIP

Regional consensus is crucial, *and so is your feedback!*





United States Title 23 CFR § 450.326: **TIP required to spend federal \$**

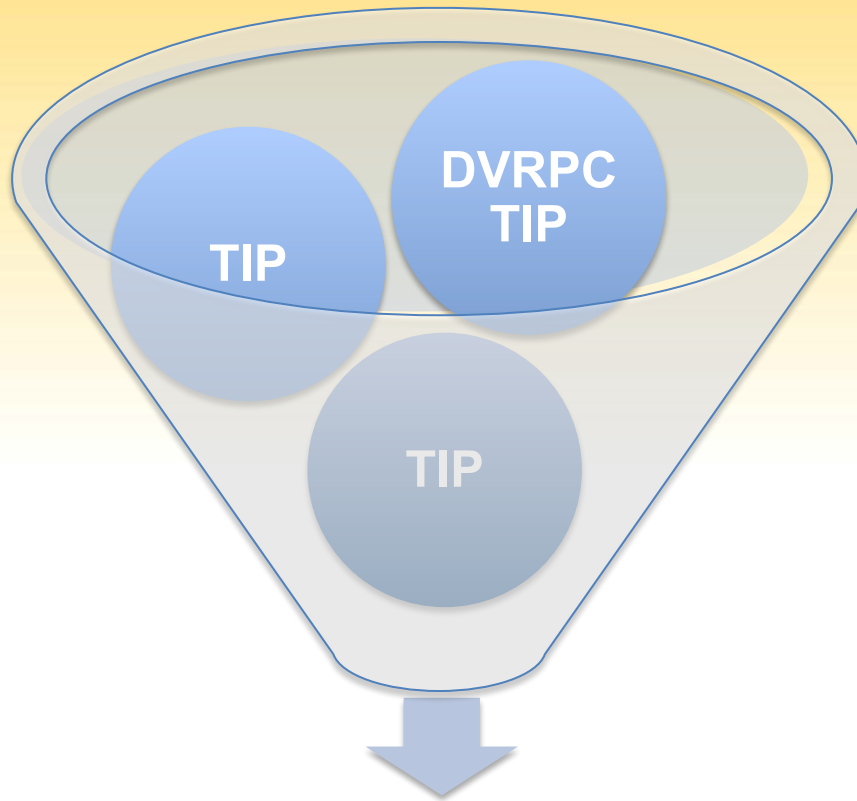
- Developing and maintaining the TIP makes the region **eligible** to receive and spend federal transportation dollars.
- TIP represents a list of **priority** federal and state funded capital transportation projects in the DVRPC region.
- Federal Fiscal Year (FY): Oct 1 - Sept 30



What the TIP is

- **Financially constrained infrastructure program**
 - Fiscal constraint by fund type and year
- **Best estimate of project schedules and costs**
 - Not a guarantee of funds implemented until they have been “**obligated**” (the Federal promise to pay sponsor for its federal share of the project’s eligible cost when bills become due)
 - Year-of-Expenditure (YOE) in future years

The Statewide TIP (STIP) combines everyone's TIPs



STIP

POLL

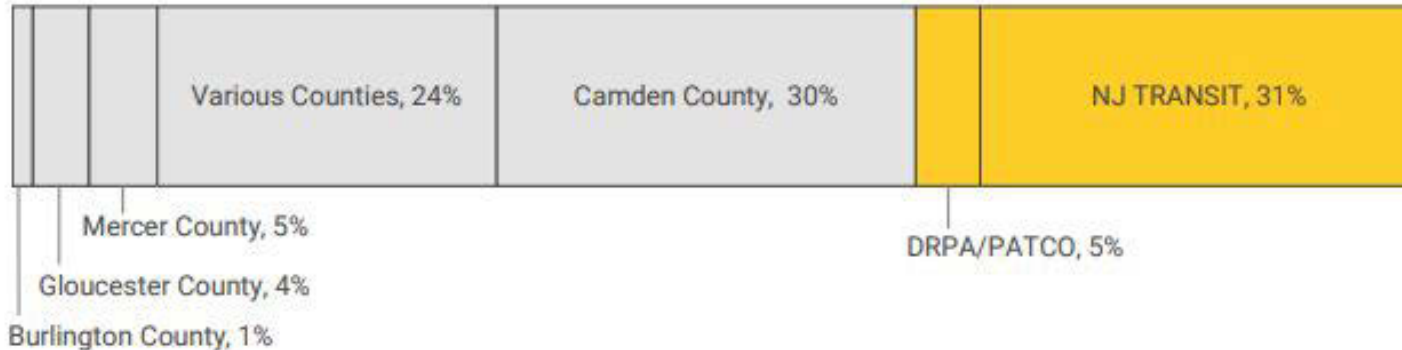
How much does the DVRPC region expect to have for projects in the First-Four Years of the current NJ & PA TIPs combined?

- Similar to JLo's net worth (\$400 M)
- As much as the Chick-fil-A owners net worth (\$7 B+)
- Between Chick-fil-A and Jeff Bezo's net worth (\$197 B)

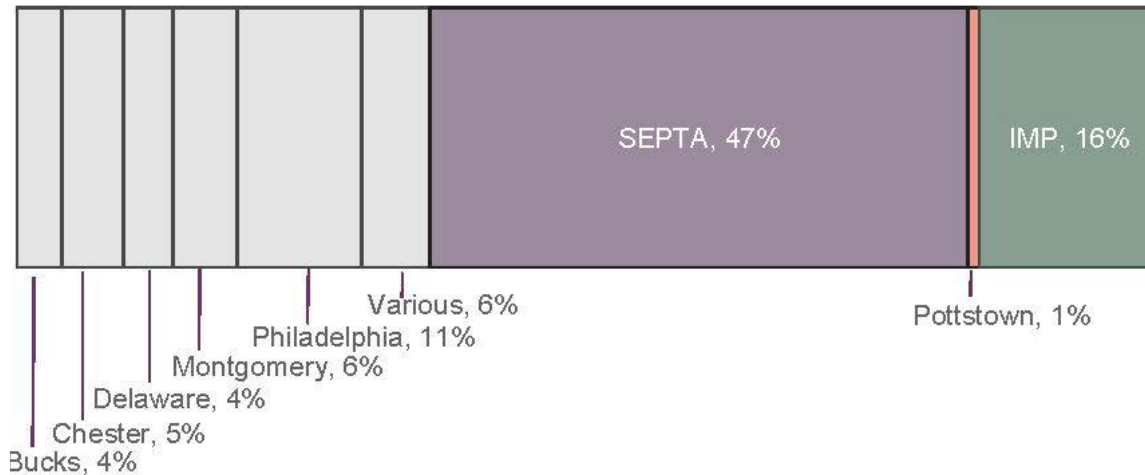
% Summary by County and Transit Operator

(Highway & Transit Programs)

FY2020 NJ TIP: \$1.679 B of the First-Four Years (FY20-23)



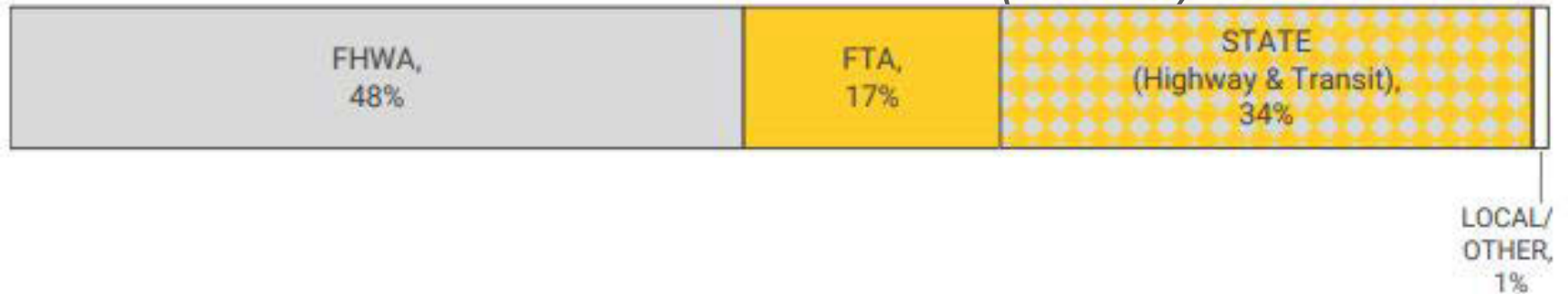
FY2021 PA TIP: \$5.4 B of the First-Four Years (FY21-24)



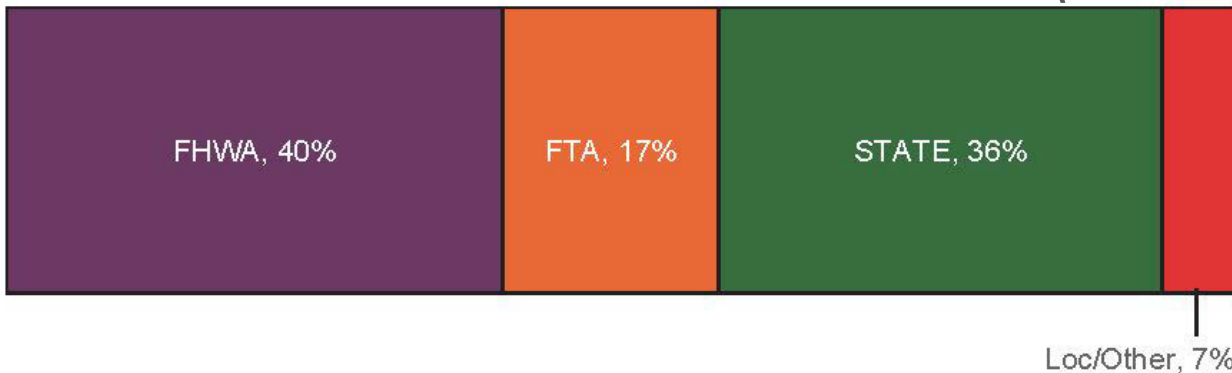
% Summary by Fund Source

(Highway & Transit Programs)

FY2020 NJ TIP: \$1.679 B of the First-Four Years (FY20-23):



FY2021 PA TIP: \$5.4 B of the First-Four Years (FY21-24):



Highway Trust Fund

(federal excise tax on gas & diesel fuel and vehicle sales)

General Fund of the U.S. Treasury

(personal income tax, sales tax, and corporate income tax collections)

Authorization Act,
Extension Acts, or Continuing Resolution

FHWA and FTA

apportions or allocates funding to states

State DOT (from FHWA)

State Transit Operator (from FTA)

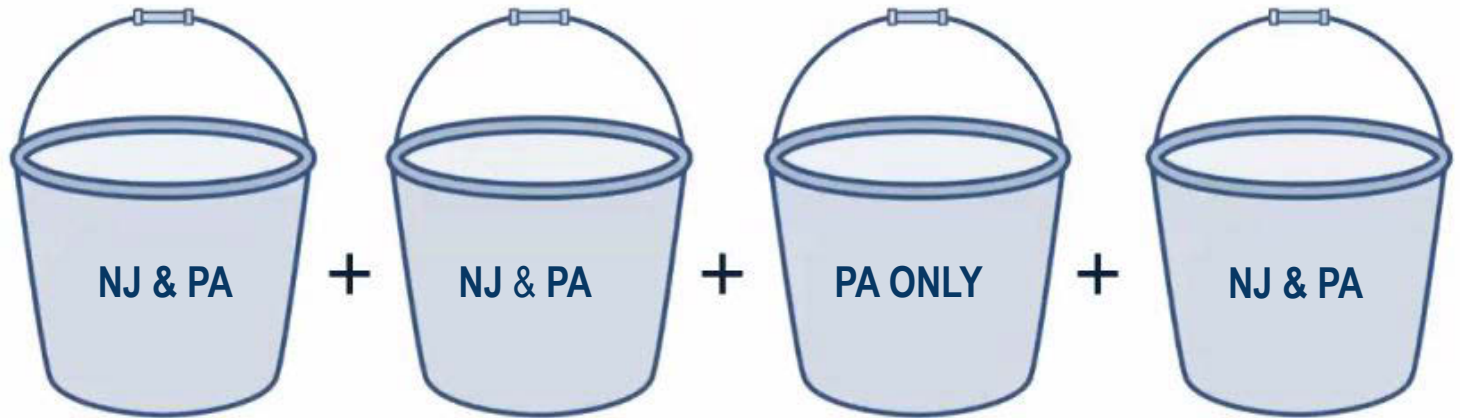
MPO TIP

Where do
TIP funds
come
from?



TIP

Funding “Buckets”



**Regional
Formula
Funding**

Examples:
NHPP
STBGP
CMAQ
HSIP

**NJ:
Statewide Program**

**PA:
Interstate
Management
Program (IMP) for
I-95 corridor in Phila.
& Bucks Counties.**

**Ongoing
Add-Ons**

Funds that are distributed competitively or discretionary, e.g., Multimodal Fund, ARLE, SPIKE, Green-Light Go

**One-Time
Add Ons**

e.g. RAISE grant, FTA Low Emissions, New/Small Starts, Earmarks
(Sometimes)

1. WHAT IS THE TIP?





Federal Highway funds

- **National Highway Performance Program (NHPP)**
- **National Highway Freight Program (NHFP)**
- **Surface Transportation Block Grant (STBGP, “STP” in PA)**
 - *Transportation Alternatives Set-Aside*
 - *Urbanized Area STBGP funds (“STU”)*
- **Highway Safety Improvement Program (HSIP)**
- **Rail Highway Grade Crossing (RRX)**
- **Congestion Mitigation and Air Quality Improvement Program (CAQ/CMAQ)**



Federal Transit funds

- **Section 5307** – Transit capital and operating assistance and planning for urbanized areas under FAST.
- **Section 5310** – Mobility for seniors and individuals with disabilities
- **Section 5311** – Non-urbanized formula area, rural public transportation programs (JARC eligible)
- **Section 5337** – State of Good Repair
- **Section 5339(a)** – Bus and Bus Facilities



State funds

NJ: State Transportation Trust Fund revenue derived from motor fuels taxes, Petroleum Gross Receipts, \$200 M annual Sales & Use tax, \$12 M annual toll road authorities via the NJ State Constitution

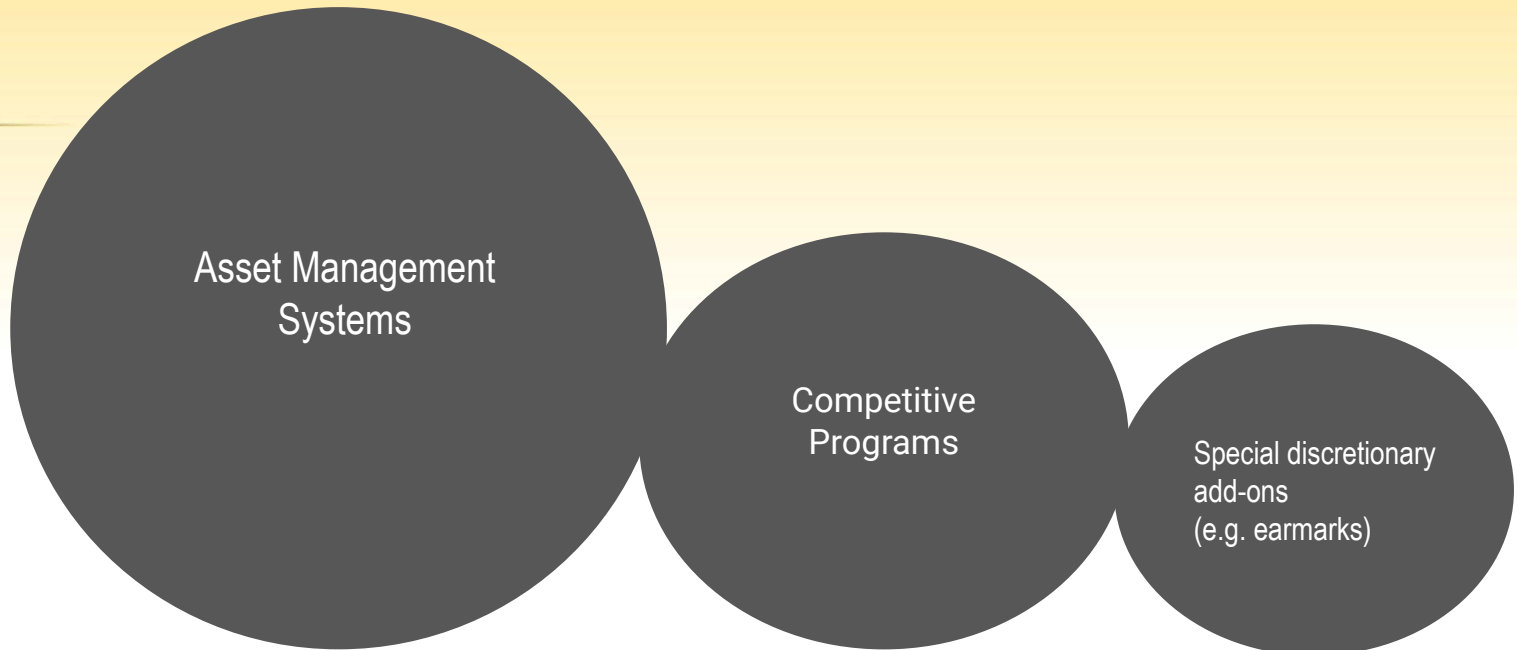
PA: Motor License Fund (gas tax and registration and fees), Public Transportation Trust Fund (large part through the Turnpike payments, also sales tax and lottery fund payments), Multimodal Transportation Fund Created by Act 89, Lottery Funded by PA Lottery proceeds (Dedicated to free and reduced fare public transportation for Pennsylvanians 65 years and older.), Public Transportation Assistance Fund (Fees on tires, rental vehicles, and leased vehicles)



Pro-rata (funding scenarios)

- 80% Federal, 15% State, 5% Local
- 80% Federal, 20% State
- 80% Federal, 20% Local
- 90% Federal, 10% Local/State (for Interstates)
- 100% Federal/Toll Credit
- 100% State
- Local funds pre-CON phases, then seeks 100% State or Federal funds for CON

Where do TIP projects come from?



Asset Management
Systems

Competitive
Programs

Special discretionary
add-ons
(e.g. earmarks)

TIP Project Record Example:

DVRPC FY2020 TIP for New Jersey

New Jersey Highway Program

Final Version

Camden

DB# 16342 Route 73 and Ramp G, Bridge over Route 130 LRPID: 302 NEW-G

AQCODE: S19 Initiated by the Bridge Management System, this project will replace the structurally deficient and functionally obsolete bridge, built in 1930 and modified in 1959.

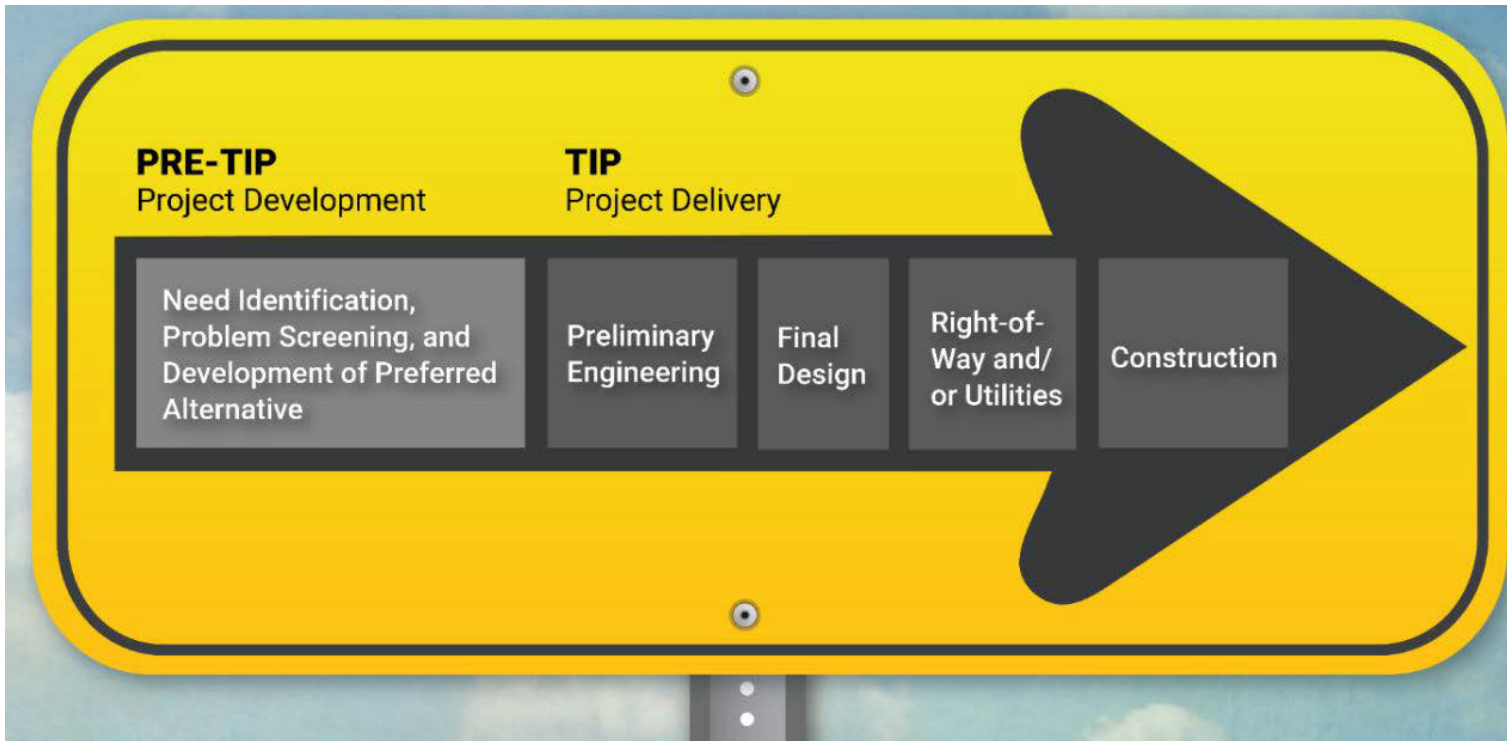
CMP: Not SOV Capacity Adding Adding Subcorr(s): 13A
 Municipalities: Pennsauken Township Planning Center: None
 CIS Program Subcategory: CIS Program Category: Bridge Assets
 Project Manager: Marcellus, Evens IPD:
 Mileposts: 32.18 Sponsor: NJDOT
 Improvement Type: Bridge Repair/Replacement Mapped: Y

Phase	Fund	TIP Program Years (In Millions)				Later Fiscal Years (In Millions)						
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
ROW	NHPP				1.000							
CON	NHPP					10.000	10.000	10.000				
DES	NHPP			3.000								
PE	NHPP	3.500										
Fiscal Year Total		3.500		3.000	1.000	10.000	10.000	10.000				
Total First Four Years:				7.500	Total Later Fiscal Years:				30.000			

See Roadmap for more explanation at www.dvrpc.org/TIP/NJ/pdf/Roadmap.pdf



Standard Project Delivery Process (Highway)



Post-TIP:
Advertise
Bid
Select
Start
Close-out

[Click here to view NJDOT's Capital Program Management Project Delivery Process and Phases](#)

1. WHAT IS THE TIP?





How to get a project on the TIP?

- It's competition.
- Do homework.
 - *Identify the need/problem.*
 - *Conduct preliminary research.*
 - *Determine if it is a municipal, county, regional, state need/priority via citizen outreach, confirm if it meets a local, regional, or state initiative, ranked high in asset management systems, or identified in plans or other regional studies.*
 - *Discuss & work with local, county, DOT, transit operators to get support.*
 - *Build the case, identify flaws, support, or opposition, and provide data to support the project.*



Do more homework

- **Counties, Transit Operators, or State DOTs must submit projects, unless it is an open competitive program.**
- **Identify or provide any required matching funds.**
 - *Get support and agreement to match, or*
 - *Arrange local or private funds*
- **Find a champion, such as a local public sponsor**
to lead the project through the federal process.
- ***Be patient.***



Delaware River

Delaware River

ek

Mantua Creek



Project considerations

- Is it consistent with Long-Range Plan (LRP) goals? Does it fit within the LRP's strategic financial policy? Is it listed on the LRP?
- What is the appropriate funding source?
- Does project scope meet source eligibility requirements?
- Is the fund source available?
- What existing TIP project might need to be delayed/ decreased/ removed to accommodate this new project, and in what year?
- Does the TIP have financial capacity to add the project?
- How far has the project progressed through the planning process? What is the schedule?
- How critical is the need v. other needs?
- What is the county or State DOT priority v. existing TIP projects and other new candidate projects?
- Are there strong local commitments? Any significant opposition?
- Does the project benefit transportation equity?

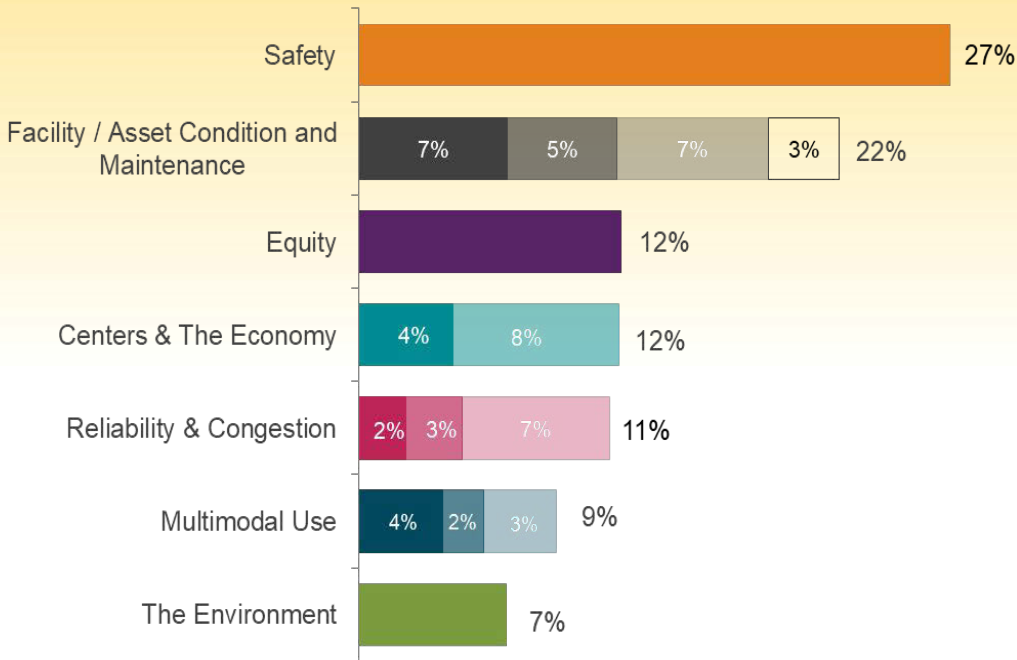


Overall TIP considerations

- Is the overall program consistent with LRP goals, and does it fit within the LRP's strategic financial policy?
- Does the TIP reflect a balanced program of multimodal investments across the region?
- Does the overall program support transportation equity and not disproportionately burden EJ populations?
- Does the overall program support and help meet performance-based planning and programming requirements?
- Do all TIP projects and programs meet funding eligibility requirements?
- Does the TIP reflect best project schedules and cost estimates?
- Does the TIP reflect local, regional, and state priority of needs?

TIP-LRP Benefit Evaluation Criteria

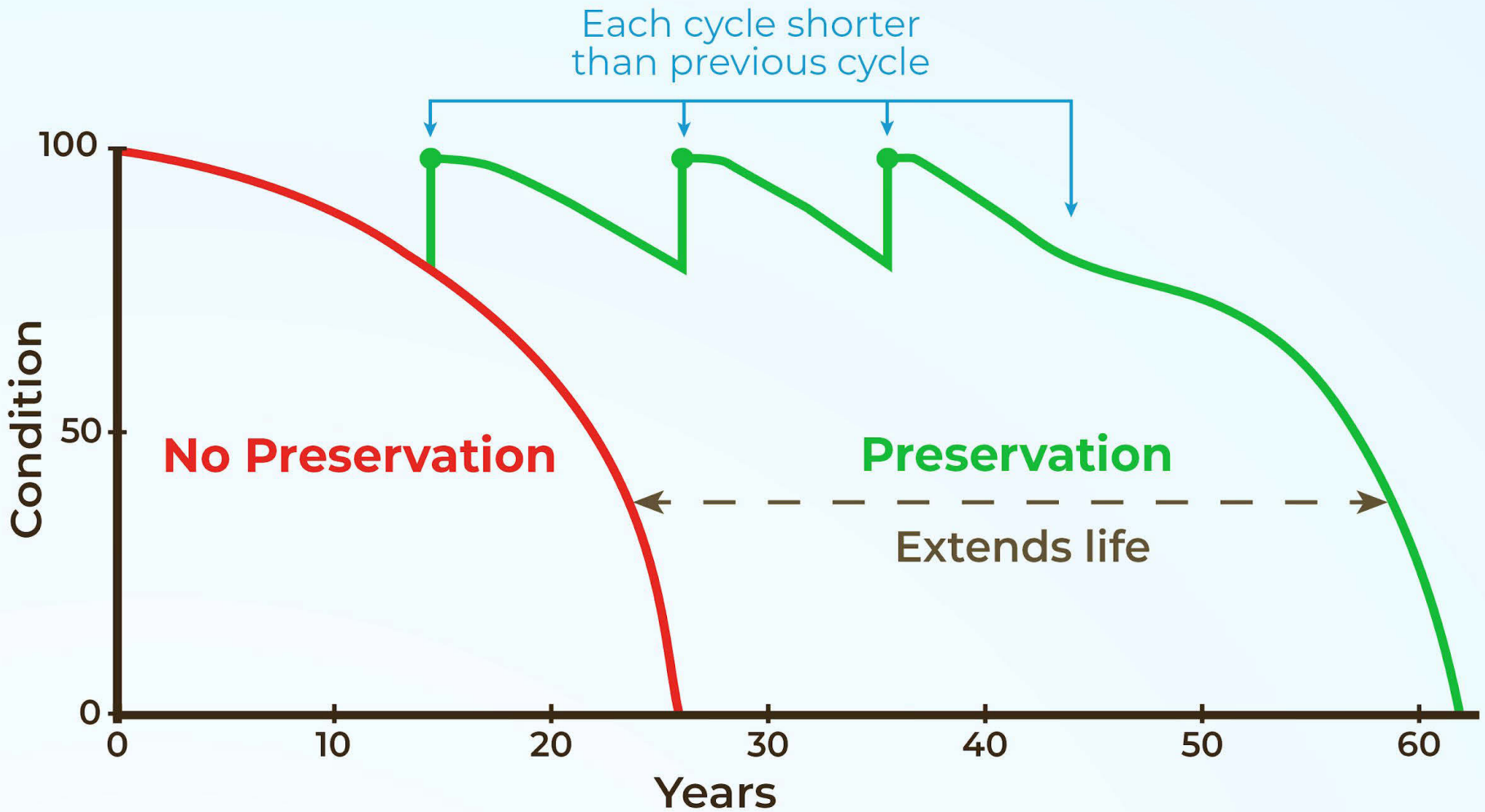
Criteria



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**

Lowest-Life Cycle Cost

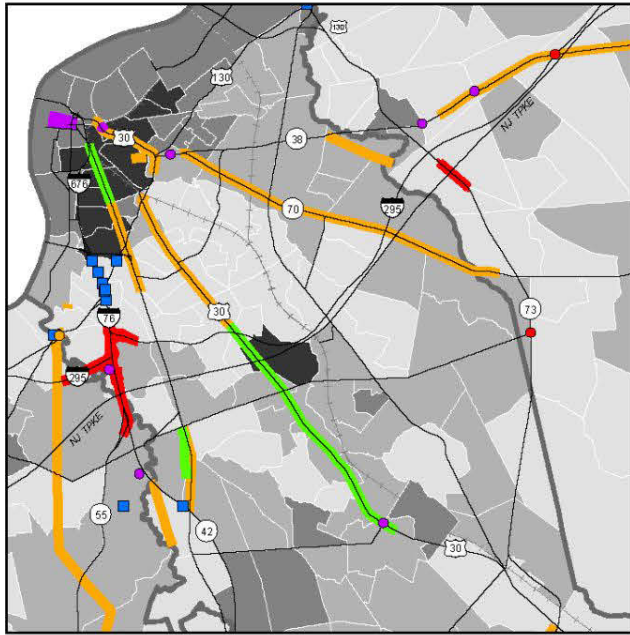




Equity Considerations

- **Expanded Environmental Justice / Title VI impact analysis in FY2021 TIP for PA**
 - *New Guidance from PennDOT, FHWA-PA*
- **Evaluate conditions and needs**
 - *Bridge, Pavement condition*
 - *Safety*
- **Analysis of investment distribution, potential benefits and burdens of projects**
- **Similar analysis for Draft FY2022 TIP for NJ**

Equity Analysis: Concentrations of Racial Minority Populations



Communities of Concern Concentration by Census Tract: Racial Minority Populations

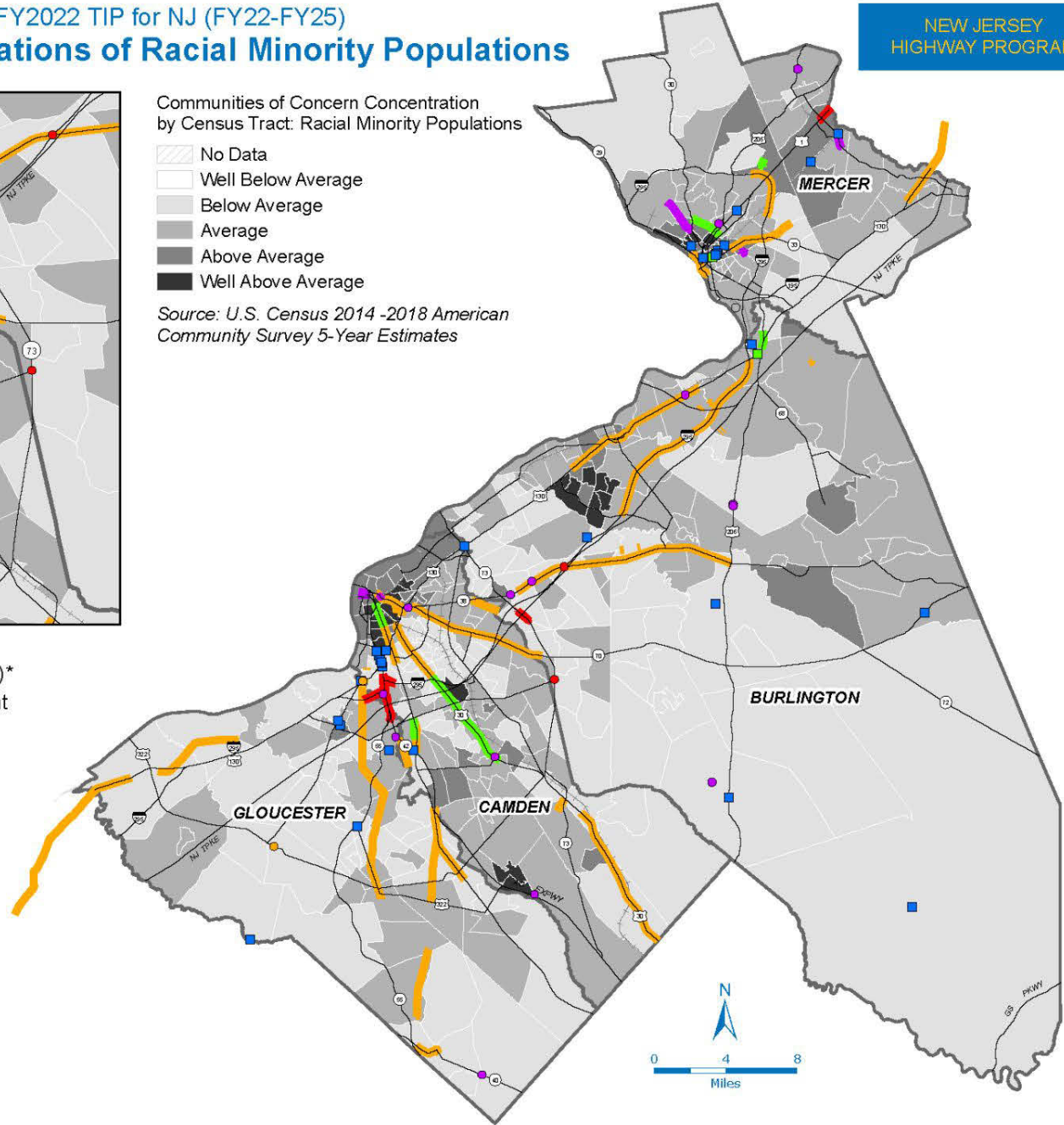
- No Data
- Well Below Average
- Below Average
- Average
- Above Average
- Well Above Average

Source: U.S. Census 2014 -2018 American Community Survey 5-Year Estimates

DRAFT DVRPC FY2022 TIP for NJ (FY22-25)*

- Intersection/Interchange Improvement
- Bicycle/Pedestrian Improvement
- Bridge Repair/Replacement
- Roadway New Capacity
- Roadway Rehabilitation
- Other

* Not all TIP projects can be mapped ("Unmappable") due to the scale and nature of the improvement.





The TIP is multimodal.

- Bicycle/Pedestrian Improvements
- Streetscape Improvements
- Bridge Repair/Replacement
- Roadway Rehab
- Roadway New Capacity
- Intersection/Interchange Improvements
- Signal/ITS Improvements
- Transit Improvements
- Other

Route 76/676 Bridges and Pavement



Credit: NJDOT Draft Financial Management Plan



Bridges over Vine Street Expressway in Philadelphia

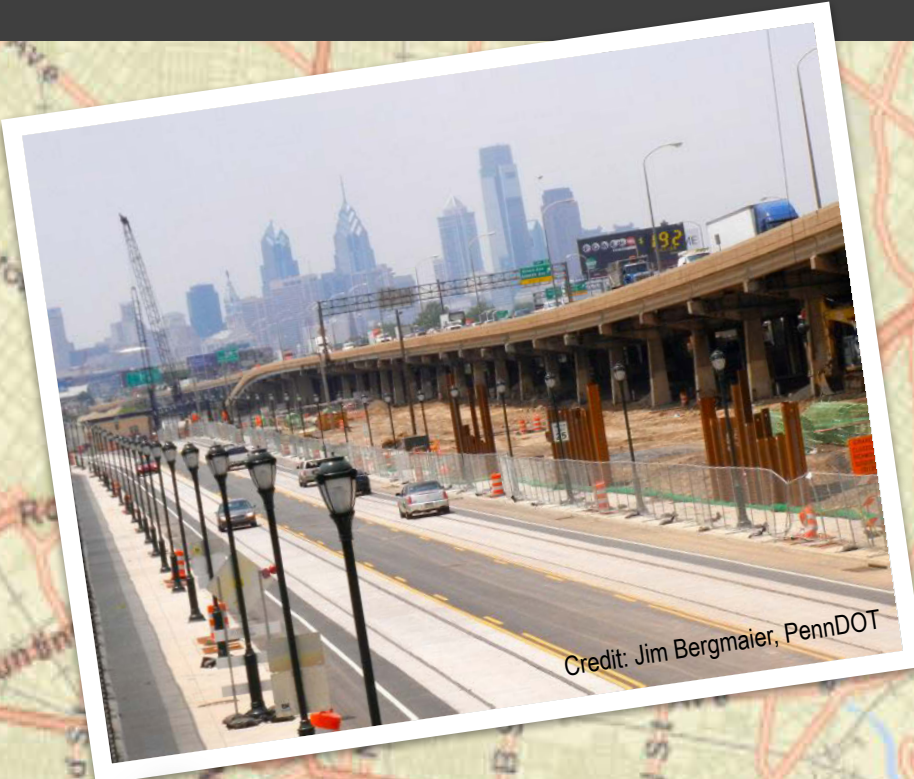


Credit: PennDOT

Bridges over Vine Street Expressway in Philadelphia



I-95 Reconstruction



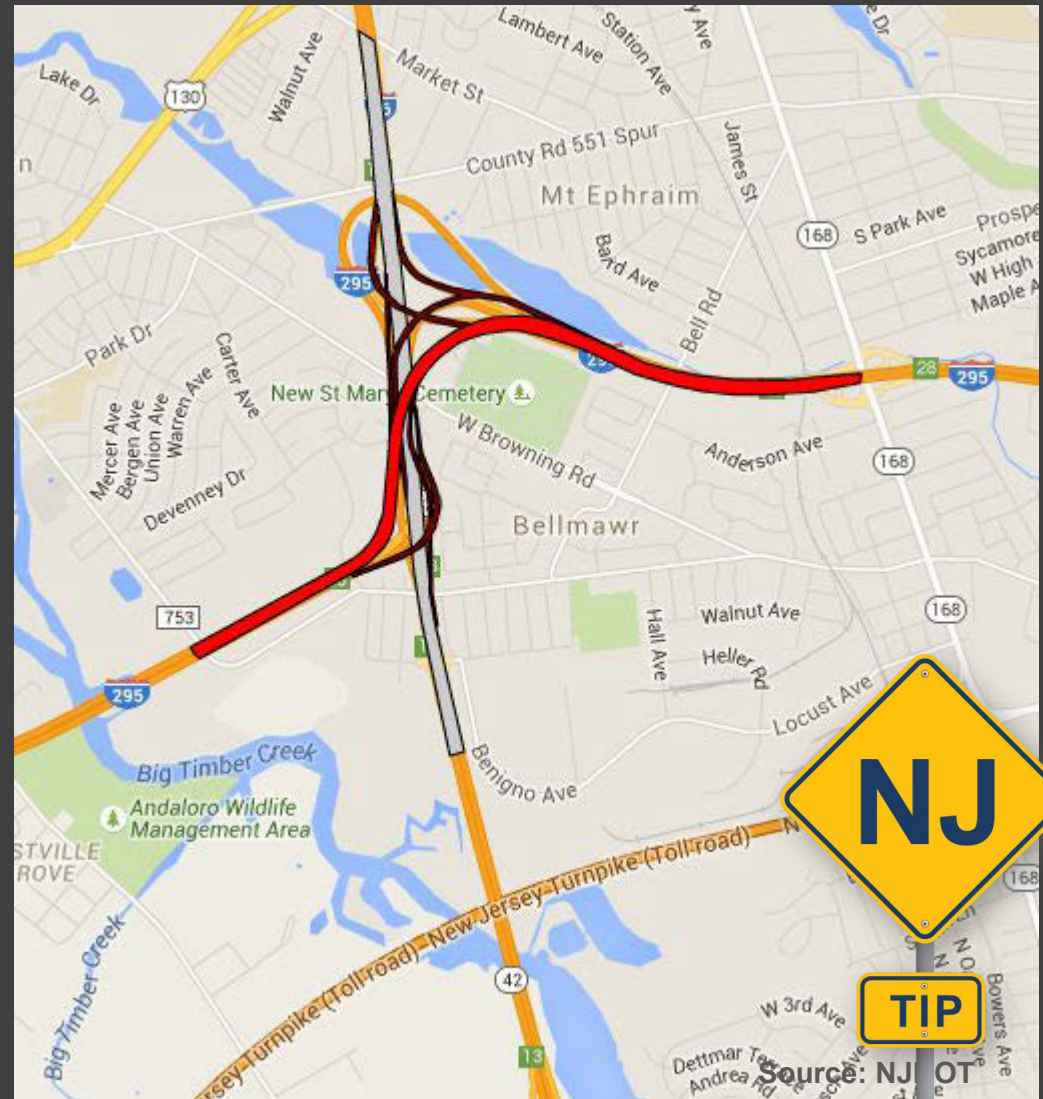
TIP



I-295/I-76/Route 42 Direct Connection

- ✓ Advanced ITS Contract (completed)
- ✓ Contract 1 (completed)
- ✓ Contract 2 (completed)
- Contract 3 in CON
- Contract 4

and I-295/NJ 42,
Missing Moves, Bellmawr



I-95 Central Access Philadelphia (CAP) over I-95 and Columbus Blvd./Waterfront Access



PA

TIP

Before | US 202 (Markley Street)



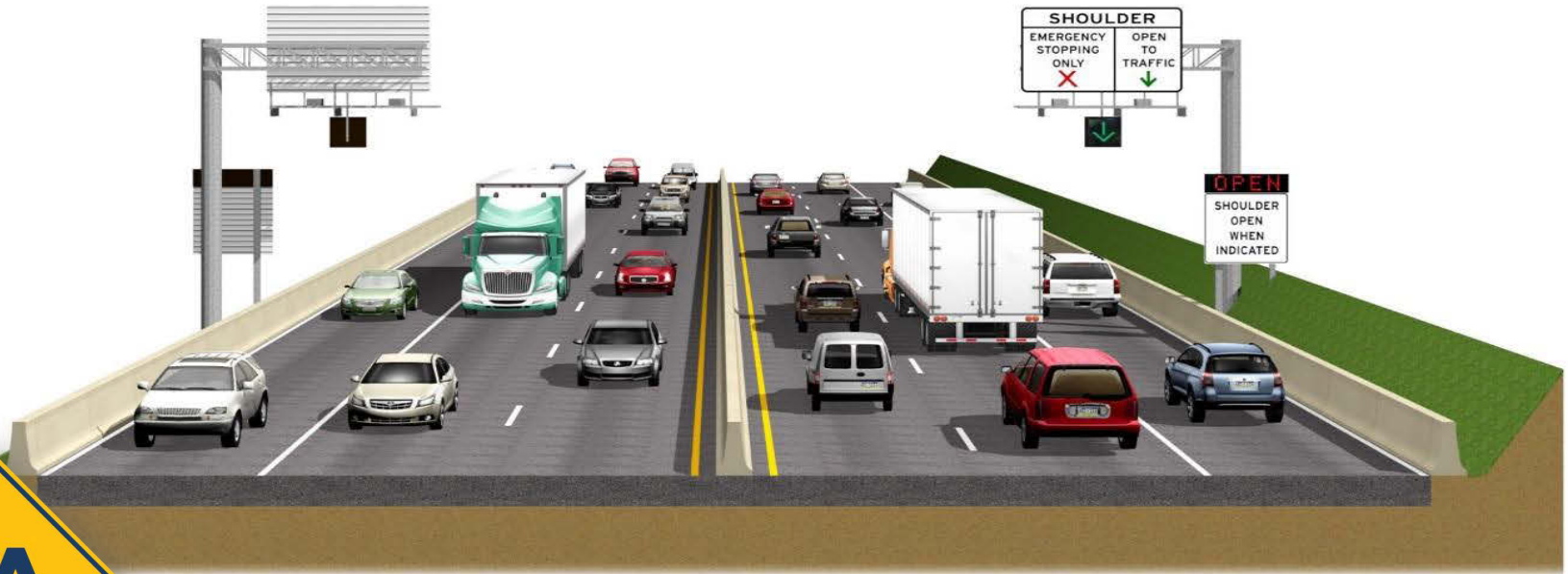
After | US 202 (Markley Street)



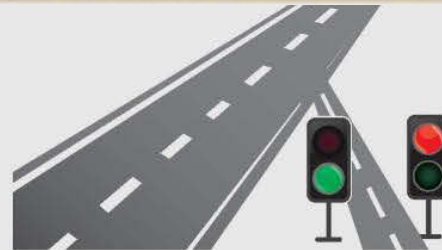
Credit: Matthew Popek, Montgomery County Planning Commission

I-476 Travel Management

Variable Speed Limit, Queue Detection and Flex Lanes



PART-TIME SHOULDER USE



RAMP METERING

Before | CR 528/CR 660 Roundabout



MARK
ROUT
↑

After | CR 528/CR 660 Roundabout



PATCO 120 Car Overhaul | Completed



Reopening PATCO's Franklin Square Station



PENNSAUKEN TRANSIT CENTER



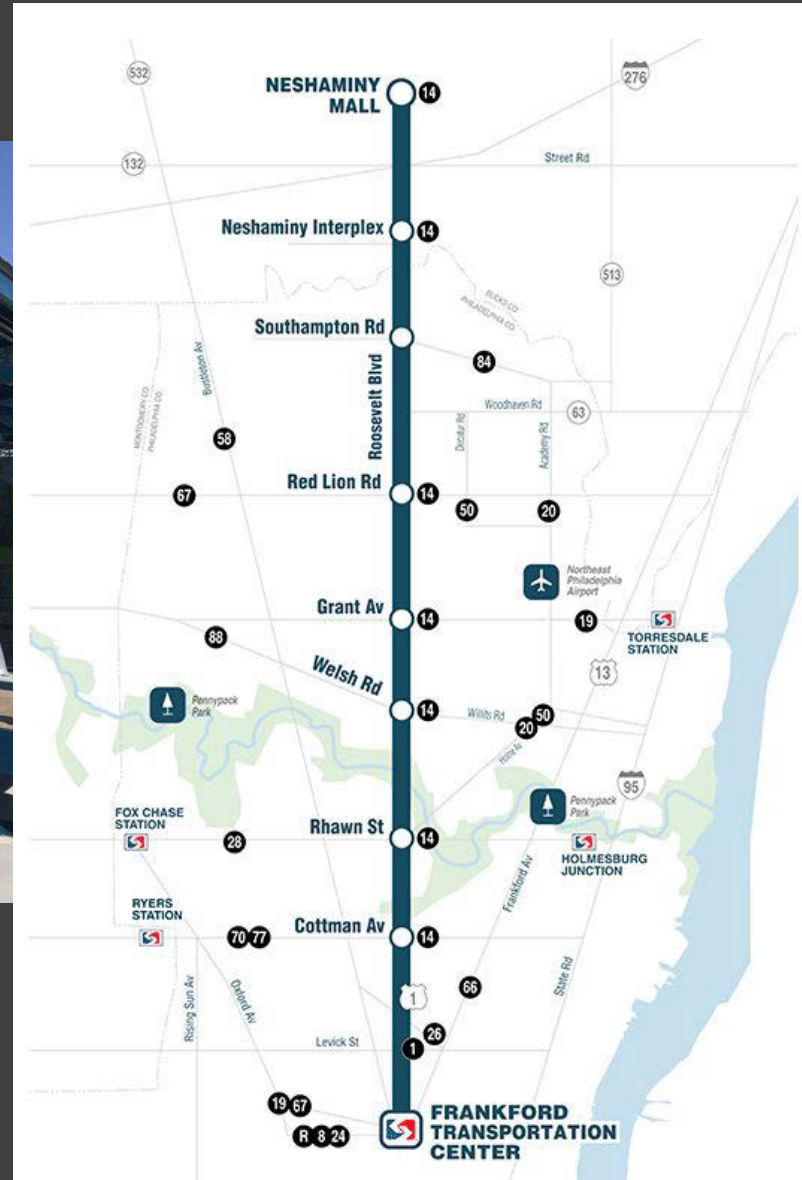
"WHERE THE PENNSAUKEN WATERS FLOW"
DIGITALLY PRINTED GLASS BY J. KENNETH LEAP

OPENING COLUMBUS DAY OCT 14, 2013

SEPTA Levittown Station



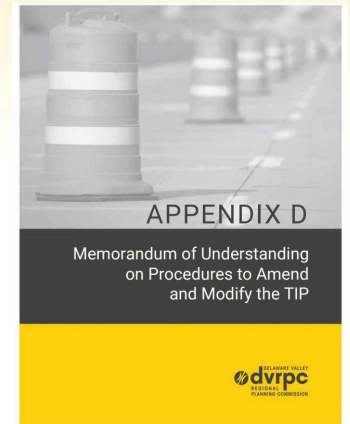
Transit and Regional Rail Station Program (Direct Bus)





TIP is maintained throughout its life.

- Current TIP stays active and is dynamic until federal agencies approve an *updated* TIP.
- TIP Actions
 - *Amendments*
 - *Modifications*
- Certain actions must go before the DVRPC Board for review and approval.



Draft FY2022 TIP for New Jersey

The NJ TIP update for the next First Four-Years (FY22-25) is currently underway!

Begin review and discuss needs and project cost and schedule estimates

Submit TIP project requests (new and existing)

Constrain TIP. Negotiations occur with the NJ TIP Subcommittee.

Public Comment Period

Request DVRPC Board Adoption

Federal Review & Approval

Fall 2020 to Winter 2021

Spring 2021

7/21/2021 - 8/23/2021

9/23/2021

Oct. 2021

Submit *Draft Project List* for regional air quality conformity analysis

Virtual public meeting/ info. session date TBD




DVRPC sends final TIP (with list of recommended changes after public comment period) to NJDOT for STIP inclusion

current FY2020 TIP stays active until Federal agencies approve the FY2022 TIP (expected Oct. 1, 2021)





Contribute and stay informed.

- **Public Comment Period on a Draft TIP**
 - clarification questions/comments
 - specific project or program questions/comments
 - support for projects or programs
 - constructive recommendations or ideas
 - feedback on documents, webpage, or web map etc. Is it easy to use? How can we make it easier for you?
- **Monthly TIP Actions – Board Comment Process**
 - questions or comments about the action, project, funding, program, etc.
 - support or lack of support for action, etc.
- **PA 12-Year Program Public Forum (Every 2 Years)**
- **Look out for project public meeting notices.**
- **Social media**   
- **TIP website:** www.dvrpc.org/TIP

https://www.dvrpc.org/LongRangePlanAndTIP/

70%

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[Long-Range Plan](#)

[Transportation Improvement Program \(TIP\)](#)

Transportation

Land Use and Environment

Planning Assistance Center

Commuter Services

Get Involved

Long-Range Plan & Transportation Improvement Program (TIP)

As Greater Philadelphia's Metropolitan Planning Organization (MPO), DVRPC is federally mandated to produce a Long-Range Plan and a Transportation Improvement Program (TIP). Both products are developed through a continuing, comprehensive, and cooperative transportation planning, programming, and decision-making process.

Long-Range Plan

The Long-Range Plan (the 'Plan') outlines a vision for the region's growth and preservation, and a fiscally constrained financial plan for funding transportation infrastructure. DVRPC updates the Plan every four years to maintain the required 20-year horizon, while using performance-based planning to ensure efficient use of the region's natural resources, public funding, and other assets. Each Plan update identifies trends and forces shaping the region, works with the public and stakeholders to develop a broadly shared vision for the future, and recommends strategies to achieve the vision.

Transportation Improvement Program (TIP)

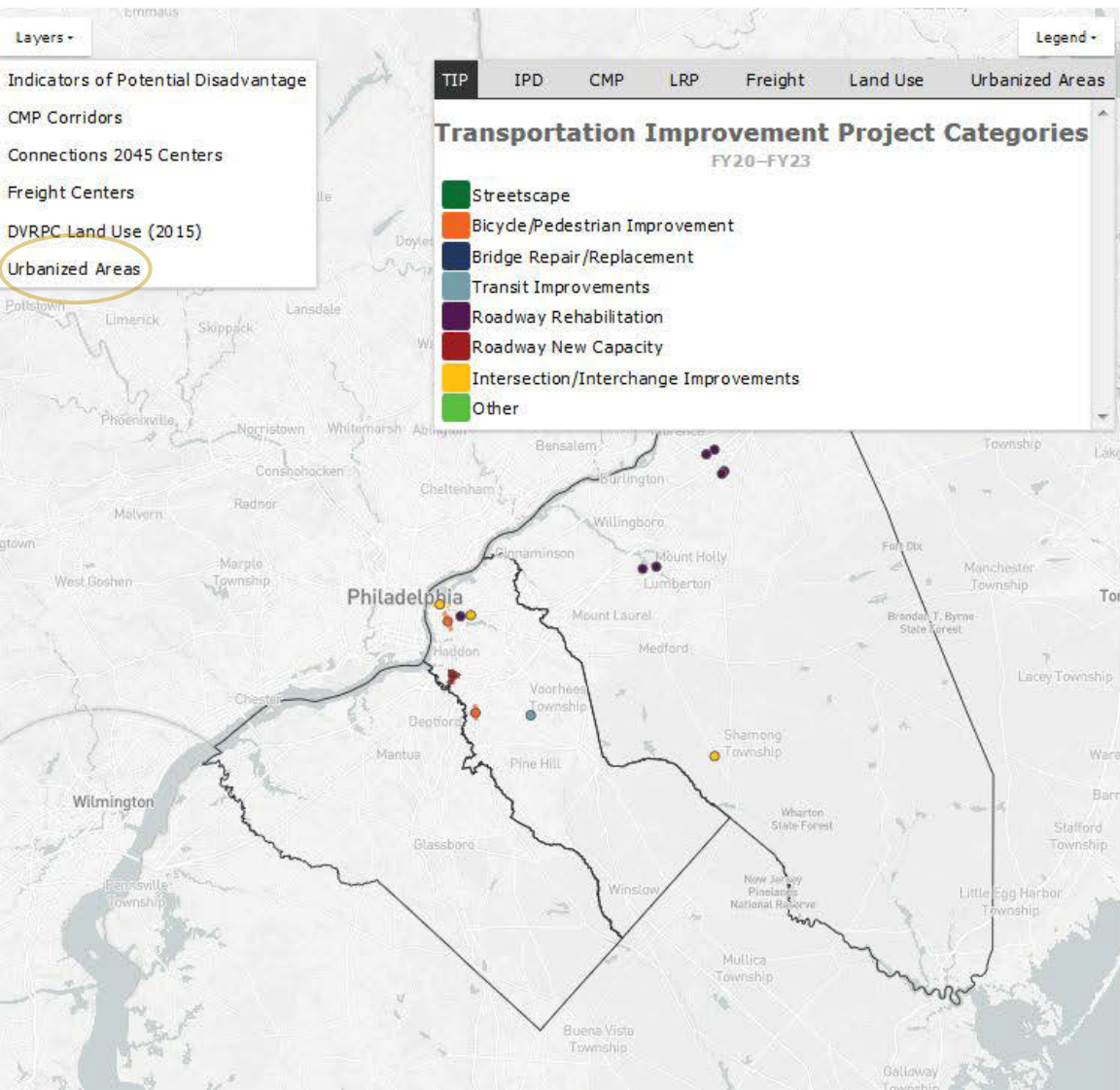
The Transportation Improvement Program (TIP) is the regionally agreed upon list of priority transportation projects over a four-year period, as required by federal law. The TIP document contains a **multimodal** list of all projects that intend to use federal funds, along with all non-federally funded projects that are regionally significant, with estimated costs and schedules. For planning purposes, the DVRPC TIP shows a full 10 years of funding in New Jersey and 12 years in Pennsylvania for highway and public transit projects.

TIP-LRP Benefit Evaluation Criteria [\[0.5 MB pdf\]](#)

TIP and LRP project selection is guided by a universal, multi-modal performance-based evaluation process. The DVRPC TIP-LRP Benefit Evaluation Criteria is a data-informed support tool that highlights trade-offs that could occur as a result of a given investment or set of investments, analyzes how new candidate projects align with the vision and goals of the Plan, and considers how each project supports the FHWA and FTA Transportation Performance Management process.

1. WHAT IS THE TIP?





- All Categories | 15 results. | [List / Tiles](#)
- Camden County Bus Purchase
Camden County
DB #D0601
 - Camden County Roadway Safety Improvements
Camden County
DB #D0410
 - Local Safety/ High Risk Rural Roads Program
Various
DB #04314
 - Gloucester County Multi-Purpose Trail Extension - Glassboro Elk Trail
Gloucester County
DB #D1203
 - Route 295/42/I-76, Direct Connection, Contract 4
Camden County
DB #355E
 - CR 537, CR 628, and CR 660 Guidrail Installation
Burlington County
DB #D1804
 - DVRPC, Future Projects
Various
DB #D026

1. WHAT IS THE TIP?

back

print



DB #D1914: Mount Ephraim Avenue Safety Improvements, Ferry Avenue (CR 603) to Haddon Avenue (CR 561)

The goal of the HSIP funded study is to recommend preferred alternatives that will significantly improve the safety for all modes of travel within the project's study area, with special attention given to vulnerable users: pedestrians and bicyclists. Funding for this project was made available through Delaware Valley Regional Planning Commission's (DVRPC) FY 2016 Local Capital Project Delivery (LCPD) Program for Camden County. This study will comply with the Federal Highway Administration's Highway Safety Improvement Program (HSIP), from which one of the project deliverables will include a Highway Safety Manual (HSM) analysis completed to the specifications of NJDOT's Bureau of Transportation Data and Safety.

Limits: Mount. Ephraim Avenue Safety Improvements, Ferry Avenue (CR 603) to Haddon Avenue (CR 561)

Municipality(s): City of Camden

County(s): Camden

Air Quality Code: R1

Program: Highway

Funding

Status

Phase	Fund	NJ FY2020 TIP Program Years (in Millions)					FY24-29
		FY20	FY21	FY22	FY23	FY24-29	
Preliminary Engineering	STBGP-PHILA	\$1.721	\$0	\$0	\$0	\$0	\$0
Design	STBGP-PHILA	\$0	\$0.738	\$0	\$0	\$0	\$0
Construction	STBGP-PHILA	\$0	\$0	\$9.835	\$0	\$0	\$0
Program Year Totals (in Millions):		\$1.721	\$0.738	\$9.835	\$0		
Total FY20-23 Cost (in Millions):		\$12.294	Total FY20-29 Cost (in Millions):		\$12.294		

1. WHAT IS THE TIP?



Thank You

Connect With Us!



www.dvrpc.org/TIP

