



July 2019

**TIP Actions** 

**Transportation Improvement Program** New Jersey TIP (FY2018-2021) Pennsylvania TIP (FY2019-2022)

DELAWARE VALLEY

PLANNING COMMISSION





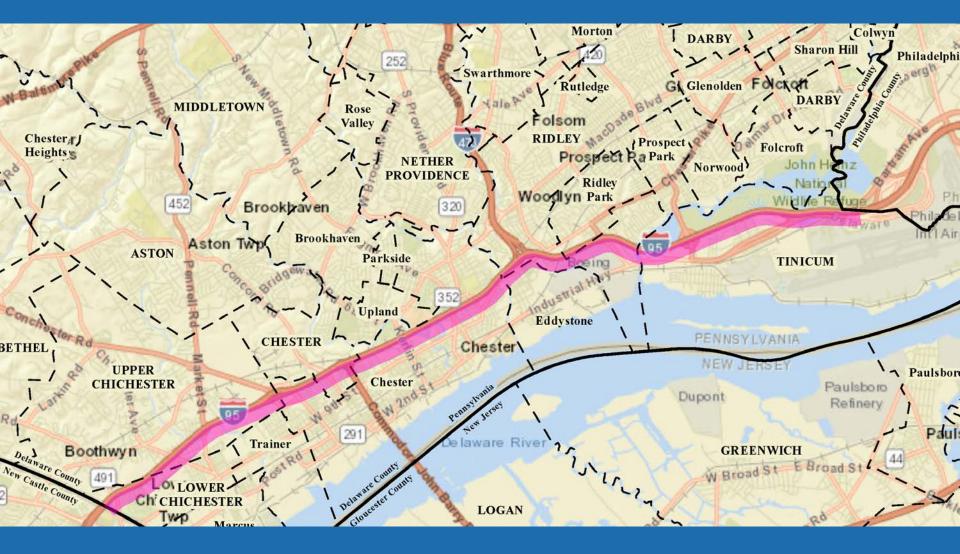
### I-95: Pavement Preservation Northbound Delaware County I Low Bid Cost Increase

### TIP AMENDMENT

- ACTION: Increase CON cost in the regional TIP by \$14.304 million (\$12.872 million NHPP/\$1.432 million State 581) from an overall \$30.457 million to \$44.761 million.
- Reason: Provide for a low-bid cost increase due to complex nature of traffic control, high traffic volume, and roadway's critical state

### Background:

- Total CON estimate, including low-bid cost increase, is \$75.5 million (\$30.5 million from the IMP).
- <u>- 35 bridges & some culverts within ~9.36 miles of project limits</u>



# **TIP Action | Proposed – PA**

## PA TIP Mrpe

## **Recommend Board approval of TIP Amendment:**

I-95: Pavement Preservation Northbound Increase CON cost in the regional TIP by \$14.304 million (\$12.872 million NHPP/\$1.432 million State 581) from an overall \$30.457 million to \$44.761 million.

## Valley Forge Granite Block Restoration Montgomery County I Add New Project to TIP

### TIP AMENDMENT

ACTION: Add a new FY20 \$450,000 STU CON funded project to the TIP.

### REASON/BACKGROUND:

- Restore an existing granite block roadway surface that can no longer be maintained.
- Located in front of the National Memorial Arch in the Valley Forge National Historic Park, the National Park Service and the Pennsylvania Historical and Museum Commission require the continued use of granite block for this section of Gulph Road.
- Design, ROW, and UTL completed as part of another TIP project, PA 23/US Route 422 Interchange and North Gulph Road Improvement (MPMS #66952).





- TIP AMENDMENT
- ACTION: Add PennDOT MTF projects for FY19 CON totaling \$4.753 million:
  - 1. Cowpath and Orvilla Intersection Improvements (\$2.495 million) in Hatfield Twp., Montgomery County;
  - Horseshoe Trail over Pickering Creek (\$1.520 million) in West Pikeland Twp., Chester County; and
  - 3. Indego Connect (\$738,000) in the City of Philadelphia.
  - **REASON/BACKGROUND:** 
    - Act 89 MTF encourages economic development and improve safety and reliability of the transportation system. PennDOT and CFA/DCED each offers a separate competitive grant program to administer the MTF awards.
    - These are additional funds to the region.

Horseshoe Trail o/ Pickering Creek



Google

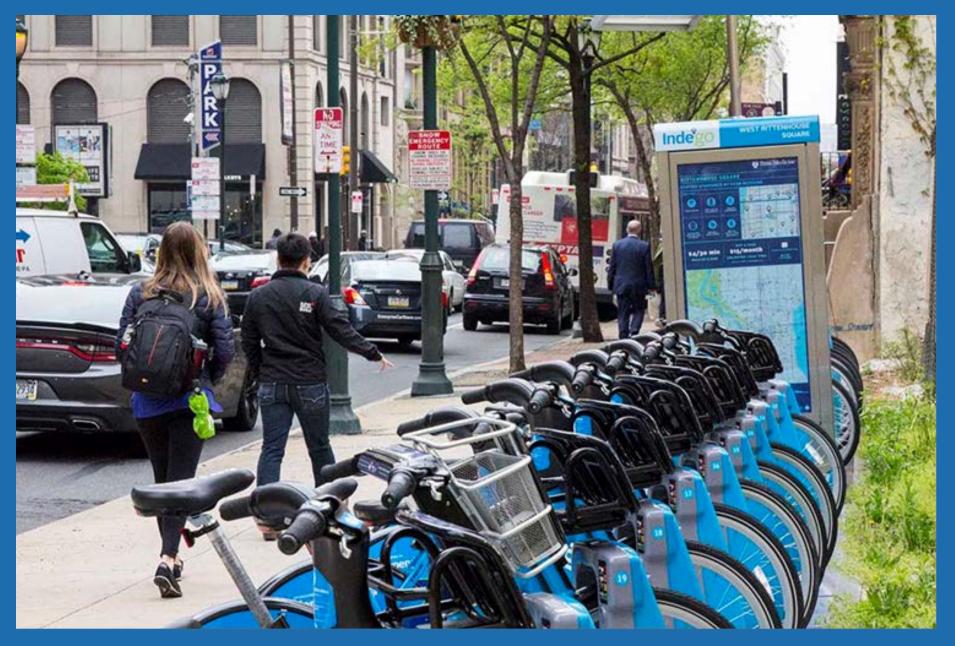


Photo: Indego

# **TIP Action | Proposed – PA**



**Recommend Board approval of TIP Amendments:** 

Valley Forge Granite Block Restoration Add a new FY20 \$450,000 STU CON funded project to the TIP.

Statewide Multimodal Transportation Fund (MTF) Projects Add PennDOT MTF projects for FY19 CON totaling \$4.753 million:

- Cowpath and Orvilla Intersection Improvements (\$2.495 million) in Hatfield Twp., Montgomery County;
- Horseshoe Trail over Pickering Creek (\$1.520 million) in West Pikeland Twp., Chester County; and
- 3. Indego Connect (\$738,000) in the City of Philadelphia.



## Route 295/42, Missing Moves, Bellmawr Camden and Gloucester Counties I Cost Increase

### TIP AMENDMENT

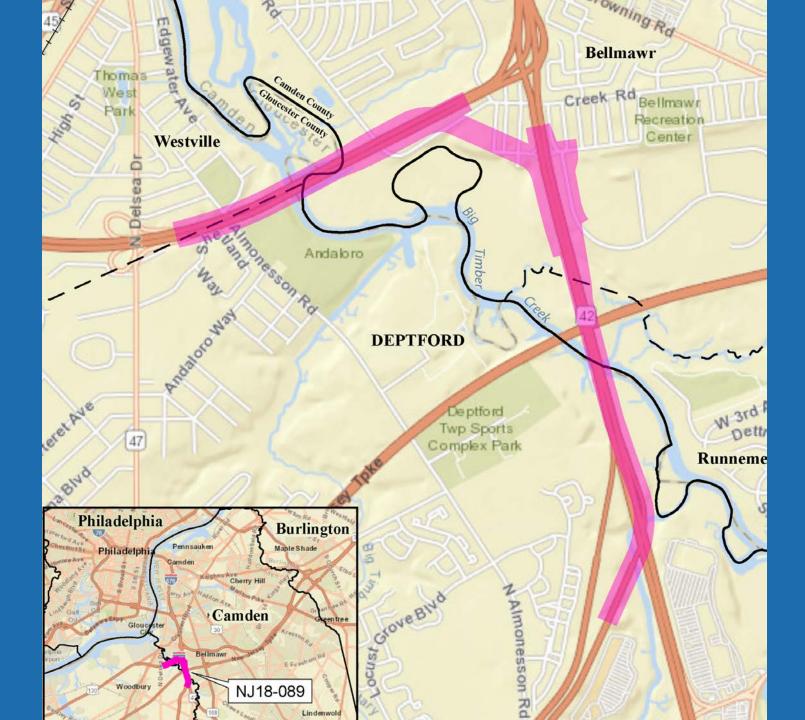
ACTION: Increase overall CON cost by \$38 million from \$160 million to \$198 million NHPP funds.

### REASON:

- Overall project cost is >\$200 million to date.
- Cost increase reflects latest cost estimate.
- Cost increase = consistency with the Draft FY2020 TIP.

## BACKGROUND:

- Major Regional Project in Long-Range Plan
- Add two new connector ramps (Rt. 42 NB to I-295 SB and I-295 NB to Rt. 42 SB) that do not exist in Bellmawr and Mt. Ephraim Boroughs to relieve an existing bottleneck and improve traffic operations and safety.



# **TIP Action | Proposed – NJ**



**Recommend Board approval of TIP Amendment:** 

Route 295/42, Missing Moves, Bellmawr Increase overall CON cost by \$38 million from \$160 million to \$198 million NHPP funds.





## Regional Trails Program: Phase VII Grant Awards

Regional Technical Committee, July 9, 2019

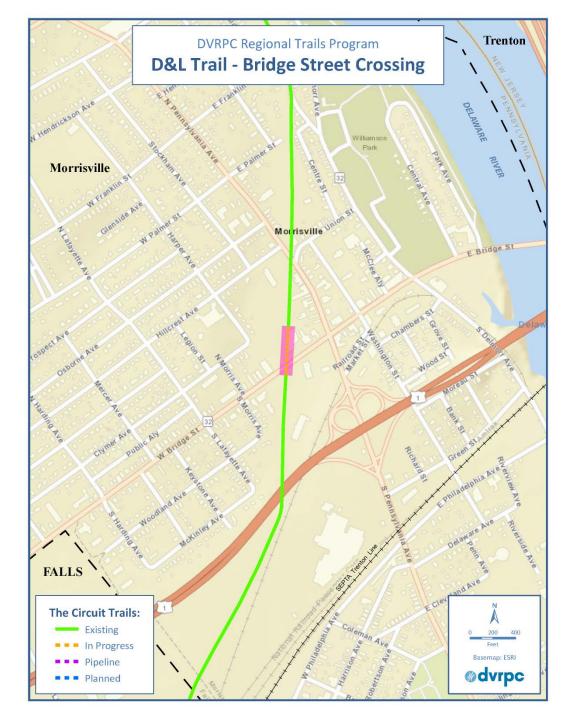


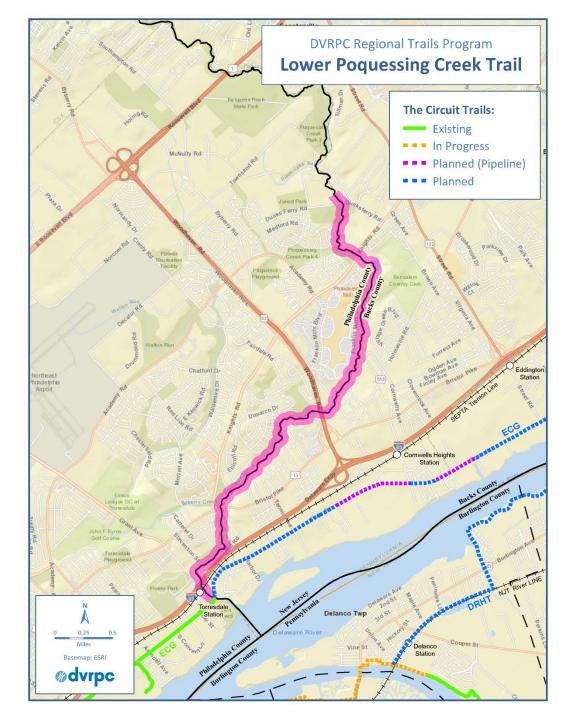
# **Proposed Grant Awards**

- D&L Canal Trail Bridge Street Crossing temporary and permanent construction easements, Pennsylvania Environmental Council – \$26,300 (\$26,300 DCNR match)\*
- Lower Poquessing Creek Trail Feasibility Study, Philadelphia City Planning Commission – \$25,000 (\$25,000 DCNR match)

\*Final easement amount subject to PennDOT review







# **Action Proposed**

That the Regional Technical Committee recommend Board approval of these two (2) Phase VII Regional Trails Program grant awards totaling \$51,300.





# **TIP - LRP Project Benefit Evaluation Criteria**

### Presentation to the RTC | July 9, 2019



Transportation Improvement Program

TIP

## **Evaluation Criteria**



# NJ PA





Transportation Improvement Program





## TIP-LRP Benefit Evaluation Goals @dvrpc

- How do candidate projects:
  - Align with vision and goals of *Connections 2045 Long-Range Plan for Greater Philadelphia*?
  - Support FHWA and FTA Performance Measures?
- Data-informed decision making
- Highlight / evaluate trade-offs
- Develop balanced program of multimodal investments



# **Regional Decision Making**



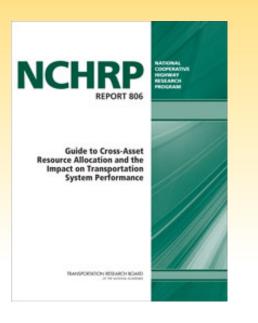
## Other considerations:

- Geographic equity
- Regional and local priorities
- Political support
- Funding eligibility

- Performance-based planning and asset management
- Project readiness
- Ability to leverage other investments



## **Overview of Update Process**



Best Practice: Cross-Asset Allocation Workshop

- 9 Total Meetings
- 4 Rounds of Project Testing
- Pairwise comparison voting exercise



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# **Opportunities for Improvement**

- Increase stakeholder understanding & confidence
- More closely align TIP and LRP evaluations

   Align with CMP, CEDS, and partner priorities
- Add scale, person trips, and reliability
- Use quantitative data
  - Avoid modeled and qualitative data
- Maintain / enhance multimodal approach
- Process automation



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# Why Aren't We Using More Models?

- Turnaround times
- Hard to assess the benefits of many types of projects
- We are using other approaches that consider future population and employment growth, i.e. CMP & Plan Centers
- Models have good accuracy at regional level, but high margins of error at the link or facility level
- We tried this in the past . . .



### **ødvrpc**











Roadside Design Improvement at Curves

Reduced Left-Turn Conflict Intersections

Systemic Application of



Two-Lane Roads

at Intersections

Leading Pedestrian Interval







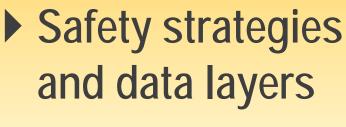
Median Barrier

Safety EdgesM

Yellow Change Intervals







- FHWA Crash **Modification** Factors Clearinghouse









Enhanced Delineation Longitudinal Rumble and Friction for Horizontal Strips and Stripes on Curves



Backplates with

Retroreflective Borders





Corridor Access **Right-Turn Lanes** Management



Medians and Pedestrian Pedestrian Hybrid Crossing Islands in Urban Beacon and Suburban Areas

Road Diet

Walkways

SOURCE: FHWA









Roundabouts



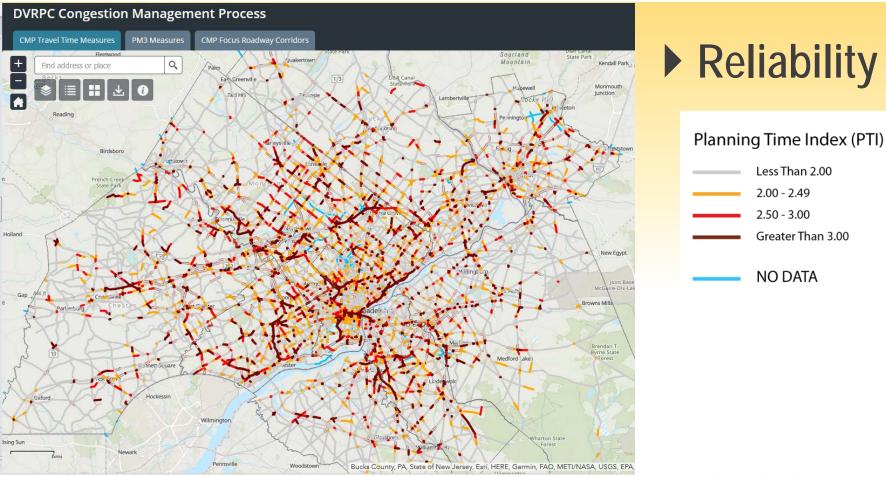






Dedicated Left- and







#### **CMP Strategies**





#### Equity Indicators of Potential Disadvantage (IPD) Composite Value by Census Tract No Data Well Below Average (0 - 11) Below Average (12 - 16) Average (17 - 20) Above Average (21 - 24) Bucks Well Above Average (25 - 36) Mercer Montgomery 0 Chester Delaware Burlington 53 92 Camden Gloucester



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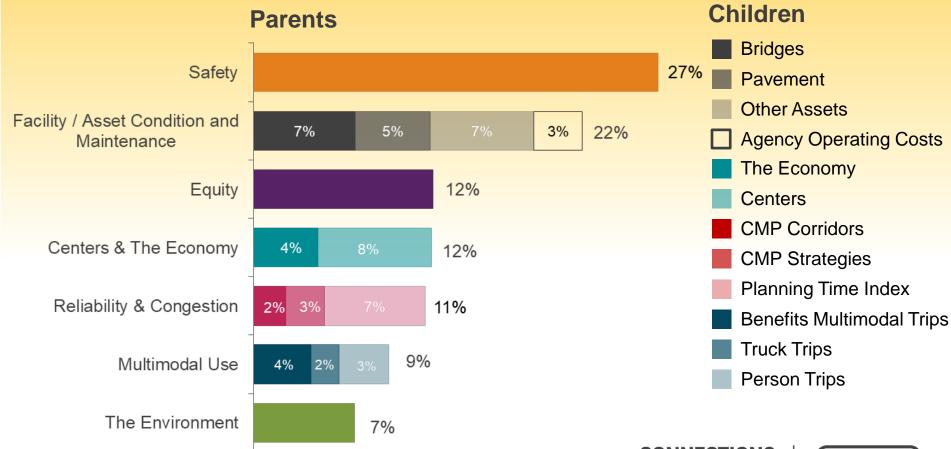


- Person trips
- Project scale
- Air quality emissions reductions
- Tourist attractions
- 3 ways to sort results



## **Proposed Criteria Weights**







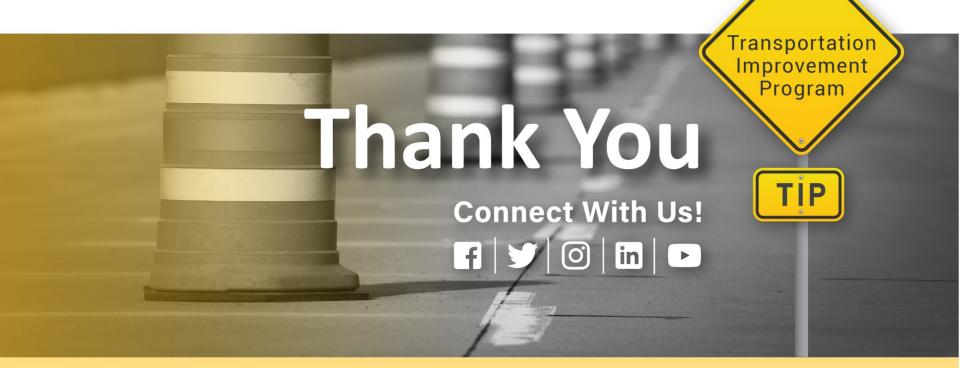
## **Proposed Action**



That the Regional Technical Committee recommend that the DVRPC Board adopt the updated TIP/LRP Project Benefit Evaluation Criteria.









# **GROWING** GREATER PHILADELPHIA

REGIONAL PLANNING COMMISSION

comprehensive economic development strategy

July 9, 2019 Presented By Karen Cilurso

- FY 2019 CEDS 5-Year Update
- 12-Month Process
- Public Comment Period: August 1-September 3
- Comments to be collected in written and digital formats (www.dvrpc.org/economic)



Action Proposed: That the RTC recommends Board approval of staff request to open a public comment period to gather public and agency comments on the FY 2019 Comprehensive Economic Development Strategy (CEDS) as well as to issue proper public notifications, make copies available at certain public libraries, and publish the draft document on the internet.

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**SCUDDER FALLS TOLL BRIDGE** 

1=712

Delaware River Joint Toll Bridge Commission

**Starting in July 2019** 





## **Tolling Only In One Direction**

Tolls will be collected only in the Pennsylvania-bound direction when the first completed (upstream) span of the new Scudder Falls Toll Bridge opens to traffic sometime in July 2019.



Delaware River Joint Toll Bridge Commission

## **Scudder Falls Toll Bridge**

No Toll Booths

#### No Cash Transactions

Tolls will be assessed electronically, as is increasingly occurring in other states and countries. This is called All-Electronic Tolling, or AET.







## **All-Electronic Tolling Overview**

AET systems assess tolls as motorists travel at highway speeds under overhead gantries equipped with E-ZPass transponder readers, high-resolution cameras, and LED lights.

Motorists pay their tolls via E-ZPass accounts or through a license-plate billing process called TOLL BY PLATE (invoices sent through the U.S. Postal Service to registered vehicle owners).







## **Benefits of All-Electronic Tolling (AET)**

#### No Stopping, No Backups, No Delays

• No toll booths. Traffic moves at prevailing highway speeds as tolls get assessed electronically via E-ZPass or camera images of license plates on non-E-ZPass-equipped vehicles.

#### Safety

• Collisions are dramatically reduced due to the absence of toll booths that interrupt the flow of traffic with backups, lane switching, and sudden stops.

#### **Time Saving**

• Motorists can reach their destinations quicker while using less fuel.

#### **Environmentally Sound**

• Free-flowing travel reduces air-polluting motor vehicle emissions caused by deceleration, idling and acceleration at congestion-prone toll booths.





## **All-Electronic Tolling – E-ZPass**

Motorists with E-ZPass transponders will have their transactions recorded and tolls deducted from their accounts.

Each day, the total batch of E-ZPass transactions recorded in the previous 24 hours will be sent to the Bridge's toll processor— the NJ E-ZPass Customer Service Center (NJ E-ZPass Group).





## **All-Electronic Tolling – E-ZPass**

Transactions recorded with NJ E-ZPass customer service center (NJ E-ZPass Group) transponders are posted to their respective accounts in a day.

All other E-ZPass transactions are sent to their respective E-ZPass toll agencies for account posting within one to two business days.





## **E-ZPass Toll Rate**

The E-ZPass toll rate for Class 1 passenger vehicles (motorcycles, cars, pickup trucks, SUVs below 8 feet tall) is \$1.25.\*

The rate can be applied to any valid passenger vehicle E-ZPass transponder issued by any of the roughly 30 toll agencies in the E-ZPass system.

\*All toll rates at www.scudderfallsbridge.com/tolling/#rates



\$1.25





## **All-Electronic Tolling – TOLL BY PLATE**

Motorists without valid E-ZPass transponders will have their license plate images recorded and the vehicles' registered owners will be sent bills in the mail.

Each transaction's registered vehicle owner is identified through DMV records; an invoice is mailed after 30 days or \$50 in toll transactions, whichever occurs first.







## **TOLL BY PLATE – Toll Rate**

The TOLL BY PLATE rate for Class 1 passenger vehicles (motorcycles, cars, pickup trucks, SUVs below 8 feet tall) is \$2.60.\*

The higher toll is warranted to cover the additional costs of identifying motor-vehicle owners and mailing bills to them.

\*All toll rates at www.scudderfallsbridge.com/tolling/#rates







## **TOLL BY PLATE-Late & Violation Fees**

If the first invoice is not paid by the due date, a second invoice is mailed with an additional \$5 processing fee per toll bill, not per transaction.

Failure to provide payment on the second invoice by its due date will result in a violation notice. A \$30 violation fee will be applied to each toll transaction that is unpaid.





## **E-ZPass: The Way to Go**





**Class 1 Car Toll with E-ZPass** 



**Class 1 Car Toll without E-ZPass** 

GET E-ZPASS NOW! . 1-888-AUTO-TOLL . EZPASSNJ.COM





## **E-ZPass**

The \$1.25 E-ZPass toll rate can be applied to any valid passenger vehicle transponder issued by one of the participating toll agencies spread among 17 states.







## Toll Rates & Discounts Class 1 Passenger Vehicles

#### **Passenger Vehicles**

Vehicles up to two axles and less than eight feet high. Includes cars, SUVs, standard pickup trucks, motorcycles, and small recreational vehicles.

#### CLASS 1

2-axle Class 1 vehicle with E-ZPass	\$1.25
E-ZPass Class 1Commuter Discount Toll	75 cents
E-ZPass Class 1 Commuter Discount Toll: Discount only available for customers with passenger-vehicle transponders issued by the NJ E-ZPass Group – DRJTBC's toll processor	40 percent discount credited to eligible E-ZPass equipped vehicles that record 16 or more trips during a calendar month.
2-axle Class 1 vehicle TOLL BY PLATE	\$2.60 (Covers motor vehicle look-up and administrative fees)





## Toll Rates & Discounts Class 2 Light Trucks

#### **Light Trucks**

Includes trucks, buses and other vehicles with two axles and eight feet and more in height.

#### CLASS 2

2-axle Class 2 vehicle with E-ZPass	\$7.00
2-axle Class 2 vehicle with E-ZPass Off-Peak discount *	\$6.30
2-axle Class 2 vehicle TOLL BY PLATE	\$8.35

\*10% E-ZPass Off-Peak Discount (9:01 p.m. – 5:59 a.m.)





Toll Rates & Discounts -Vehicles with 3 or more axles

10% E-ZPass Off-Peak Discount (9:01 p.m. – 5:59 a.m.)

Includes trucks, buses, and other vehicle types with three or more total axles. CLASS 3 3-axle vehicle with E-ZPass 3-axle vehicle with E-ZPass Off-Peak Discount \$11.48		
3-axle vehicle with E-ZPass \$12.75		
3-axle vehicle with E-7Pass Off-Peak Discount \$11.48		
3-axle vehicle TOLL BY PLATE \$14.25		
CLASS 4		
4-axle vehicle with E-ZPass \$17.00		
4-axle vehicle with E-ZPass Off-Peak Discount \$15.30		
4-axle vehicle TOLL BY PLATE \$19.00		
CLASS 5		
5-axle vehicle with E-ZPass \$21.25		
5-axle vehicle with E-ZPass Off-Peak Discount \$19.13		
5-axle vehicle TOLL BY PLATE \$23.75		
CLASS 6		
6-axle vehicle with E-ZPass \$25.50		
6-axle vehicle with E-ZPass Off-Peak Discount \$22.95		
6-axle vehicle TOLL BY PLATE \$28.50		
CLASS 7		
7-axle vehicle with E-ZPass \$29.75		
7-axle vehicle with E-ZPass Off-Peak Discount \$26.78		
7-axle vehicle TOLL BY PLATE \$33.25		





TOP

## **Frequent Commuter Discount**

The Commission offers a substantial discount opportunity – a 40-percent cost savings – for river region motorists who travel across the agency's toll bridges on a regular basis.

The discount only applies to E-ZPass passenger vehicle transponders administered by the NJ E-ZPass Customer Service Center

(a.k.a. NJ E-ZPass Group), which is the bridge's toll processor -the entity that processes Bridge Commission toll transactions.





## **Frequent Commuter Discount**

The discount can be applied after an eligible E-ZPass motorist makes 16 toll-direction trips at the Scudder Falls Toll Bridge or any of the seven other toll bridges in the Delaware River Joint Toll Bridge Commission's system during a respective calendar month.





## **Frequent Commuter Discounts**

75 cents is the discounted frequent commuter rate at the Scudder Falls Toll Bridge. It can be applied only to eligible motorists using E-ZPass transponders issued by the Bridge Commission's toll processor – NJ E-ZPass Group.

50 cents savings per commute at the Scudder Falls Toll Bridge.





## NJ E-ZPass<sup>®</sup> Group

The NJ E-ZPass Group (Conduent, Inc.) is a regional toll processing/customer service center that handles toll transactions E-ZPass accounts, invoicing, and violation notices for seven toll agencies operating in New Jersey, Pennsylvania, and Delaware.





#### GET E-ZPASS NOW! . 1-888-AUTO-TOLL . EZPASSNJ.COM



Delaware River Joint Toll Bridge Commission

# **Thank you!**

#### www.scudderfallsbridge.com/tolling

### **US 422 Operations and Capacity Study**

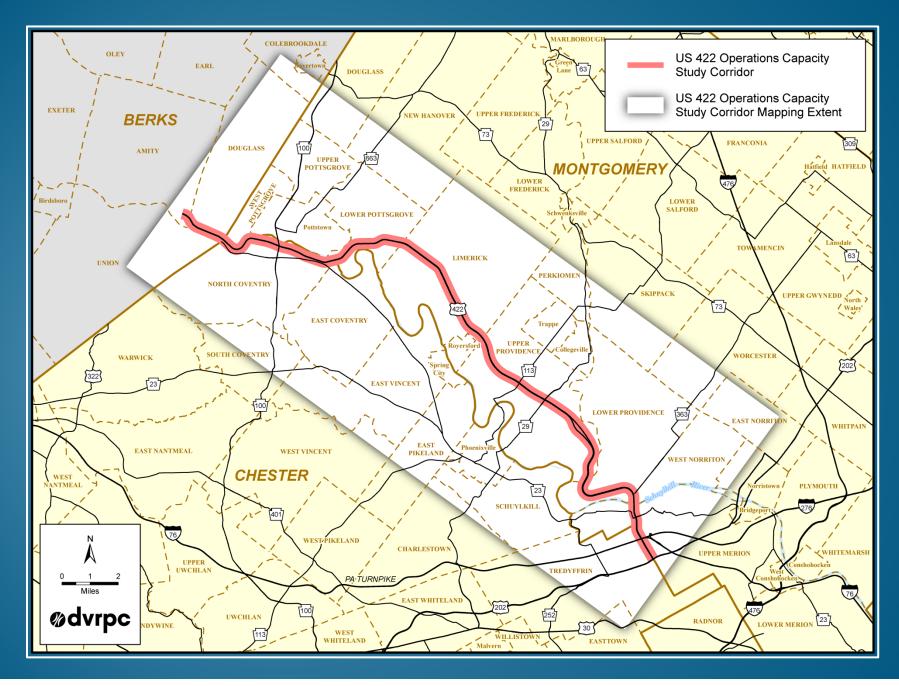
Keith Hartington Principal Transportation Engineer

#### **Project Objective**

 Develop a traffic model to assess the current and projected operating conditions of the highway and its interchanges.







10

#### **Project Overview**

- Three-year study: FY 2018-2020
- Collect data for Base Year model (2018)
- Develop traffic model using microsimulation software
- Calibrate Base Year model to a reasonable level





#### **Project Overview**

- Identify horizon year and develop No-Build scenario
- Develop and test Build scenarios to test improvement strategies
- Collect various performance measures across scenarios





### **Goals and Anticipated Benefits**

- Identify an appropriate set of operational improvements
- Reduce congestion and travel delay
- Enhance freight and commerce
- Safer and more efficient system
- Quality of life



#### **Project Work Flow**

- Data collection efforts (completed)
- Develop and Base Year and No-Build models (current)
- Host steering committee meeting
- Identify improvement strategies
- Develop Build alternatives
- Host steering committee meeting
- Summarize findings in written report



### **Vissim Simulation**





#### Thank You

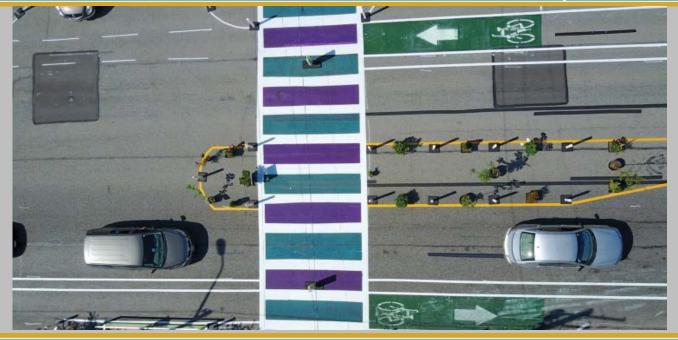
Keith Hartington Delaware Valley Regional Planning Commission <u>Khartington@dvrpc.org</u> 215-238-2852



**DELAWARE VALLEY REGIONAL PLANNING COMMISSION** 

# Tactical UrbanismWhat's the appetite for this method in our region?

Lake Shore Boulevard, Euclid OH, NOACA Allison Carey, The Plain Dealer



**Betsy Mastaglio** *Manager Office of Transit, Bicycle and Pedestrian Planning* 

July 9, 2019 DVRPC Regional Technical Committee Meeting



#### **Overview:** What is Tactical Urbanism? Why do it? Project and Program Examples

### **Discussion**:

Are you thinking about or actively engaged in Tactical Urbanism work? What types of projects are they? What are the gaps or challenges? Can DVRPC help?

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### What is Tactical Urbanism?

"...flexible and short-term projects to advance long-term goals related to street safety, public space, and more."

Source: Tactical Urbanists Guide to Getting it Done, 2015 (Streets Plans Collaborative)

### Usually with the end game of:

- Safety
- Rebalancing modes
- Community placemaking

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### What does it look like?







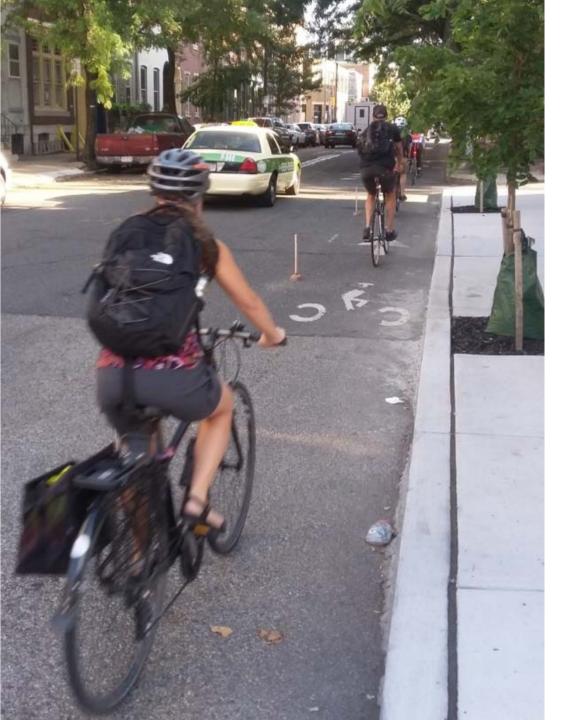
#### tactical urbanism:

a city and/or citizen-led approach to neighborhood building using short-term, low-cost and scalable interventions to catalyze long-term change.

### Why not just build the long term project?

**%**d

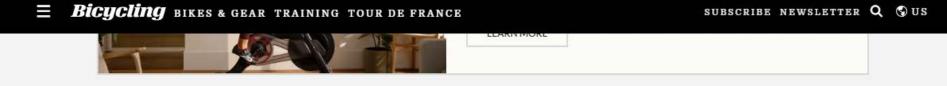
- Test strategies
- Innovate new design interventions
- Demonstrate options
- Shorten project delivery
- Minimal disruption and cost
- Temporal and flexible



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### "Guerrilla" tactical urbanism

Bicycle Coalition of Greater Philadelphia Leonard Bonarek August 2017



#### Guerrilla Toilet Plunger Bike Lanes Are Officially a Trend

AN ILLEGAL BIKE LANE CRAFTED OUT OF PLUMBING TOOLS HIT THE STREETS IN PROVIDENCE—AND THE MAYOR IS COOL WITH IT

BY MOLLY HURFORD May 16, 2017



toilet-plunger-bike-lane/	olunger-bike-lane/
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## It's more than a trend...

Mike Lydon & Anthony Garcia (Street Plans Collaborative)

#### **Copyrighted Material**

"Tactical Urbanism demonstrates the huge power of thinking small about our citiles. It shows how, with a little imagination and the resources at hand, citiles can unlock the full potential of their streets." —Janette Sadik-Khan



#### Street Plans Collaborative

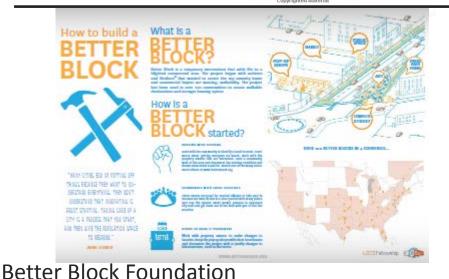




DECEMBER 2016 | CREATED BY THE STREET PLANS COLLABORATIVE, WITH FUNDING FROM THE JOHN S. AND JAMES L. KNIGHT FOUNDATION

#### MIKE LYDON & ANTHONY GARCIA

FOREWORD BY ANDRÉS DUANY Copyrighted Material



COMMUNITY-LED DEMONSTRATION PROJECT POLICY + GUIDE

City of Burlington, VT | January 2018



Burlington Vermont Public Works Dept.

# **Regional examples – ongoing**



City of Philadelphia Market & JFK parking-protected bike lanes



Greys Ferry Triangle Philadelphia, PA

## @dvrpc

## **Regional examples – ongoing**



Woodbury, NJ Lot 323



Lansdowne Landing Lansdowne, PA

## **Regional examples – ongoing**



New Brunswick, NJ

## Regional examples – one day events



## **Regional examples – one day events**

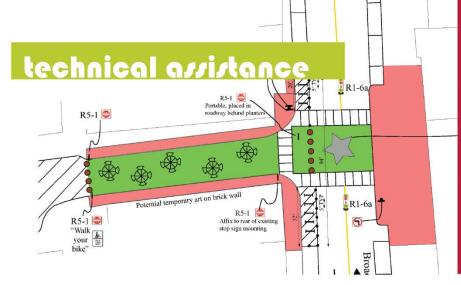








# planning







# inplementation evaluation





# CHECK OUT THIS TEMPORARY CURB EXTENSION



STREET

**SUPPLIES** 

A curb extension is a way to calm a street's environment by making a road more narrow. Curb extensions also shorten your walk across the street while creating more space for benches and plants! When used at an intersection, curb extensions can help drivers turn more slowly and notice pedestrians in the crosswalk.

Northeast Ohio Areawide Coordinating Agency Street Supplies Program – Lake Shore Drive, Euclid OH

Learn more about temporary demonstration projects

and NOACA's Street Supplies program by visiting NOACA.org/StreetSupplies or using this OR Code.





#### f Go Human



#### Go Human

@GoHumanSoCal

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Q

#TBT: Hard to believe it's been 3 years since our first Go Human event! 🎈 In March 2016, we co-hosted Nuestra Avenida: César Chávez Reimaginada with Los Angeles Great Streets Initiative. Hundreds of people joined us to explore a dynamic vision for César Chávez Avenue, which was developed by People for Mobility Justice, From Lot to Spot & CALÓ YouthBuild. Learn more about our event series on our website:

http://gohumansocal.org/Pages/Events.aspx



#### Southern California **Council of Governments**





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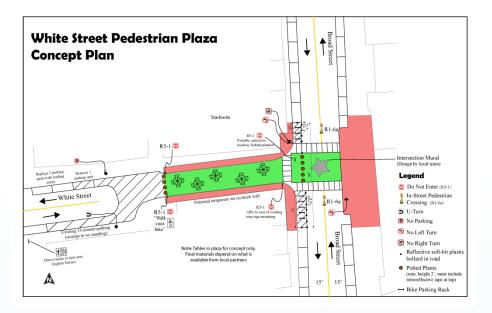


Like

Comment

A Share

🛞 Betsy





New Jersey Transportation Planning Authority Complete Streets Technical Assistance Program Red Bank tries 'out of the box' thinking on intersection

Red Bank, NJ The Two River Times

# how can we help?

#### planning technical arrivtance



- for example..
- > identifing potential project
- > guidance on permit/design/maintenanc

sketch something!

> educational materials

#### other awesome ideas?

#### funding

- for example...
- > assistance with grant applications
- > materials library
  - > creation of a DVRPC funding program



sketch something!

other awesome ideas?

for example... > project staging plan

> stakeholder coordination

#### other awesome ideas?



sketch something!

sketch something!



set-up

other awesome ideas?

for example... > identify project metrics > data collection

#### evaluation implementation

CO COMPCE

## What's next?

#### Let's talk! Meet in the PA room

#### bmastaglio@dvrpc.org

Mention at upcoming DVRPC/County preWork Program Meetings

**Betsy Mastaglio** *Manager Office of Transit, Bicycle and Pedestrian Planning* 

July 9, 2019 DVRPC Regional Technical Committee Meeting

