



June 2019

**TIP Actions** 

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

DELAWARE VALLEY

PLANNING COMMISSION



## Outdoor Advertising Control Various Counties I Add New Project to TIP



## ► TIP AMENDMENT

- ACTION: Add a new project to the TIP, by programming a \$600,000 ROW phase:
  - ROW in FY19 (\$266,000 STU)
  - ROW in FY20 (\$334,000 STU)
- PennDOT is federally required to conduct regular surveillance of outdoor advertising devices (23 CFR 750.705b)
- A total of 1,450 approved signs must be inspected on a regular basis, including:
  - Bucks County 300 signs
  - Chester, Delaware, and Montgomery Counties 150 signs each
  - City of Philadelphia approximately 700 signs

## **TIP Action | Proposed – PA**



Recommend Board approval to amend the TIP by adding new project to TIP:

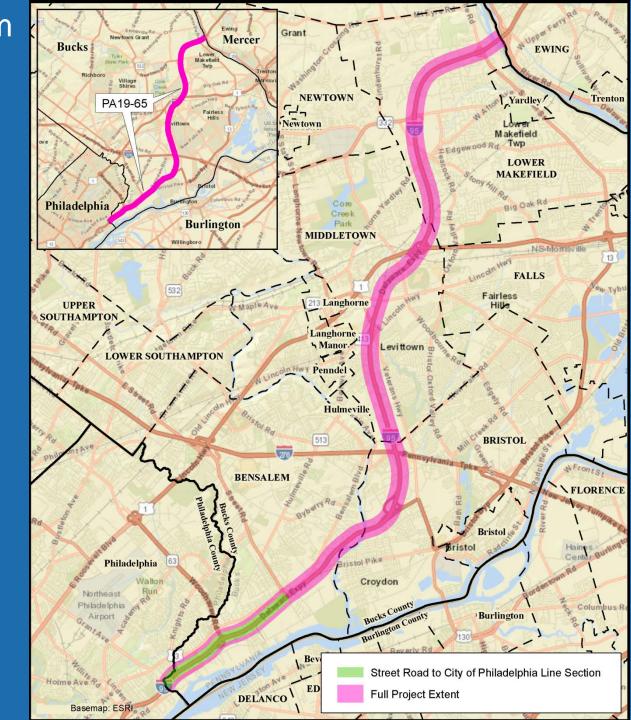
Outdoor Advertising Control \$600,000 ROW phase:

FY19 (\$266,000 STU)FY20 (\$334,000 STU)

## I-95 Philadelphia to Scudder Falls Bucks County I Add Project Back into the TIP

- TIP AMENDMENT
- ACTION: Add project back into the TIP for CON in the amount of \$8,000,000:
  - FY20 CON (\$608,000 State 581)
  - FY21 CON (\$7,316,000 State 581)
  - FY22 CON (\$76,000 State 581)
- **REASON**:
  - Additional pavement preservation needs and safety upgrades to meet new standards identified since project was originally designed
- BACKGROUND:
  - This cost increase would bring the total estimated CON cost to \$40,596,000

- I-95 southbound from Street Road to the City of Philadelphia line (approximately 3.7 miles) was not included in original project scope;
- As of 2016 design phase, this area had recently been maintained;
- Since that time, significant deterioration has occurred.



## **TIP Action | Proposed – PA**



Recommend Board approval to amend the TIP by adding project back into the TIP:

I-95 Philadelphia to Scudder Falls \$8,000,000 CON phase:

- FY20 (\$608,000 State 581)
- FY21 (\$7,316,000 State 581)
- FY22 (\$76,000 State 581)

## **59th Street over AMTRAK (Bridge)** City of Philadelphia Draw Funding Down from Line Item

#### TIP AMENDMENT

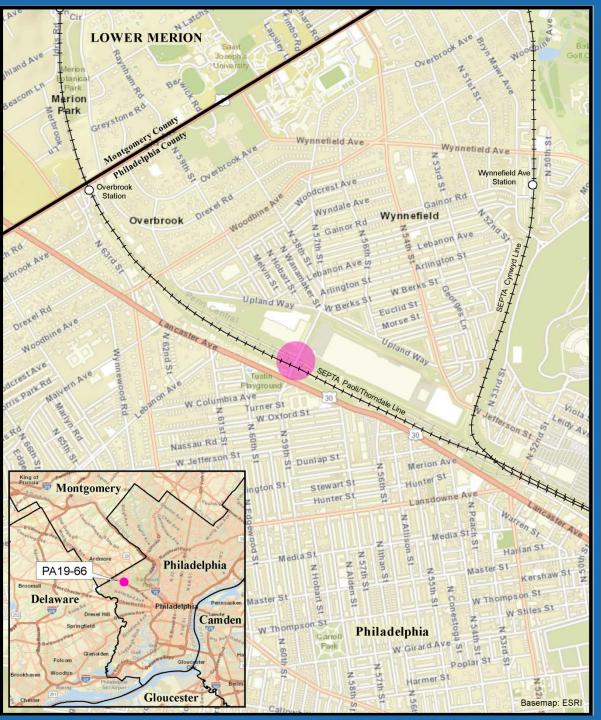
- ACTION: Draw down \$28,140,000 from County Bridge Line Item:
  - PE for \$2,040,000
    - FY20 PE (\$816,000 State 183/\$204,000 Local)
    - FY21 PE (\$816,000 State 183/\$204,000 Local)
  - FY23 FD (\$1,600,000 State 183/\$400,000 Local)
  - FY23 UTL (\$3,280,000 State 183/\$820,000 Local)
  - FY23 CON (\$16,000,000 State 183/\$4,000,000 Local)
- REASON:
  - Replace existing poor condition bridge with a safe and reliable proposed structure

#### BACKGROUND:

Previously planned as rehabilitation; after recent inspection, complete replacement warranted

#### Work includes:

- Demolition and removal of existing bridge, including portions of existing reinforced concrete abutment and pier substructures carrying 59th Street over and above the tracks of Amtrak and SEPTA;
- Construction of a proposed steel multi-girder bridge with a reinforced concrete composite deck atop reinforced concrete abutments and piers;
- Full depth roadway reconstruction and limited repaving;
- Curb and sidewalk reconstruction;
- Street lighting improvements;
- ADA-compliant curb ramp construction;
- Railroad electric traction system modification;
- Utility relocation.



## **TIP Action | Proposed – PA**



## Recommend Board approval to amend the TIP by drawing down funds from the County Bridge Line Item:

## **59th Street over AMTRAK (Bridge)** Draw down \$28,140,000 funding:

- PE for \$2,040,000
  - FY20 PE (\$816,000 State 183/\$204,000 Local)
  - FY21 PE (\$816,000 State 183/\$204,000 Local)
- FY23 FD (\$1,600,000 State 183/\$400,000 Local)
- FY23 UTL (\$3,280,000 State 183/\$820,000 Local)
- FY23 CON (\$16,000,000 State 183/\$4,000,000 Local)

## Railroad Grade Crossing projects Various Counties I Add New Projects to TIP

## TIP AMENDMENT

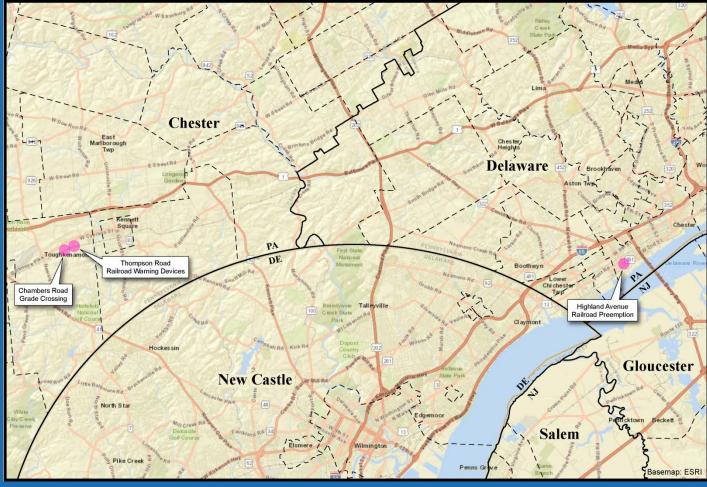
- ACTION: Add three new Statewide Railroad Grade Crossing projects in the amount of \$628,000 for CON:
  - Chambers Road Grade Crossing: \$208,000 RRX in FY19
  - Thompson Road Railroad Warning Devices: \$100,000 RRX in FY19 and \$120,000 in FY20
  - Highland Avenue Railroad Preemption: \$200,000 RRX in FY22

## REASON:

Improve safety at three railroad grade crossing locations

## **BACKGROUND:**

These funds are additional to the region



#### **Chester County**

- Chambers Road Grade Crossing project will install railroad warning lights between Hillendale Road and Baltimore Pike in New Garden Township.
- Thompson Road Railroad Warning Devices project will install railroad warning devices between Chambers Road and Scarlett Road in New Garden Township.
- **Delaware County**
- Highland Avenue Railroad Preemption project will install signal preemption for the traffic signal at PA 291 and Highland Avenue in the City of Chester.

## **TIP Action | Proposed – PA**



**Recommend Board approval to amend the TIP by adding three new projects to the TIP:** 

- Chambers Road Grade Crossing
- Thompson Road Railroad Warning Devices
- Highland Avenue Railroad Preemption

Add three new projects to the TIP for CON in the total amount of \$628,000:

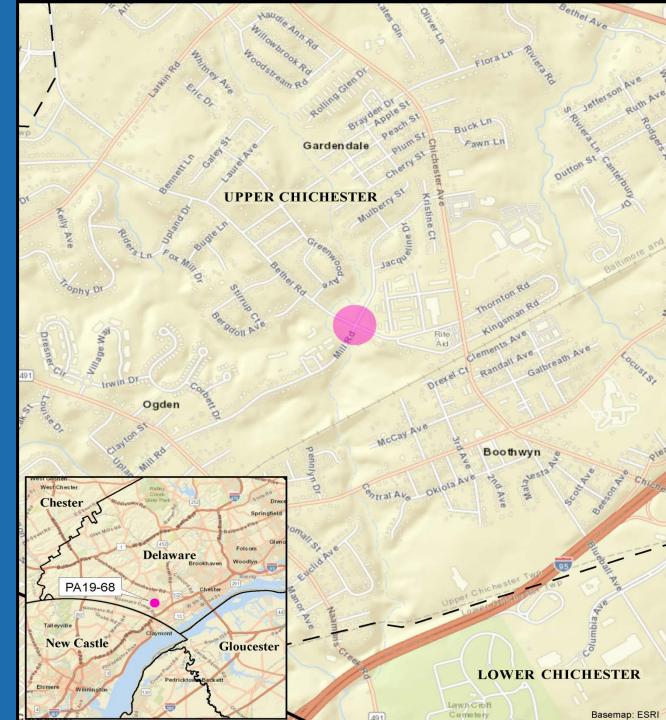
- Chambers Road Grade Crossing: \$208,000 RRX in FY19
- Thompson Road Railroad Warning Devices: \$100,000 RRX in FY19 and \$120,000 in FY20
- Highland Avenue Railroad Preemption: \$200,000 RRX in FY22

**Bethel Road Roundabout** Delaware County Add Preliminary Engineering Phase

## TIP AMENDMENT

- ACTION: Add a \$579,000 sHSIP/Toll Credit Match Preliminary Engineering phase to the Bethel Road Roundabout project in FY19:
  - FY19 PE (\$579,000 sHSIP/Toll Credit Match)
- REASON:
  - PE phase inadvertently omitted during FY2019 TIP update process
- BACKGROUND:
  - These funds are additional to the region

Project will install a roundabout at Bethel Road and Mill Road in Upper Chichester Township, Delaware County.



## **TIP Action | Proposed – PA**



**Recommend Board approval to amend the TIP by adding a Preliminary Engineering phase the TIP:** 

Bethel Road Roundabout – Add \$579,000 sHSIP/Toll Credit Match funded PE phase in FY19





Kwan Hui June 11, 2019 RTC

RTC Agenda Item #6: Open Public Comment Period for -DRAFT FY2020 TIP for NJ -DRAFT Conformity Determination for the *Connections 2045* Long-Range Plan, FY2019 TIP for PA, and the Draft FY2020 TIP for NJ



## **Public Comment Periods**

- Draft FY2020 NJ TIP
   July 9 to Aug. 9, 2019
- Draft Conformity Determination
   July 23 to Aug. 23, 2019



## **Public Meetings**

• Draft FY2020 NJ TIP

– Mon. July 29<sup>th</sup> from 6 to 8 p.m.

- Mercer County's McDade Administration Bldg.
- Draft Conformity Determination

   Mon. July 29<sup>th</sup> (same time & location as above)
   Tues. July 30<sup>th</sup> from 2 to 3 p.m. at DVRPC



## **Action Proposed**

That the RTC recommends Board approval of staff request to open a public comment period for the purpose of gathering public and agency comments on the

- Draft FY2020 TIP for NJ
- Draft Conformity Determination for the
  - Connections 2045 Long-Range Plan (LRP)
  - FY2019 TIP for PA, and
  - Draft FY2020 TIP for NJ

as well as to

- issue proper public notifications;
- publish the draft documents of the respective LRP and TIPs and conformity findings on the internet;
- make copies available at certain public libraries; and
- hold public meetings.



## Thank you!



#### Questions? Contact: Kwan Hui at khui@dvrpc.org

## DVRPC SELF CERTIFICATION

METROPOLITAN TRANSPORTATION PLANNING AND PROGRAMMING PROCESS DVRPC RTC Meeting

JOHN WARD Deputy Executive Director

June 11, 2019



Presentation to RTC | June 11, 2019



## Community Impacts of Multifamily Development



Presentation to RTC | June 11, 2019

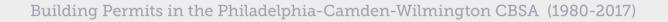


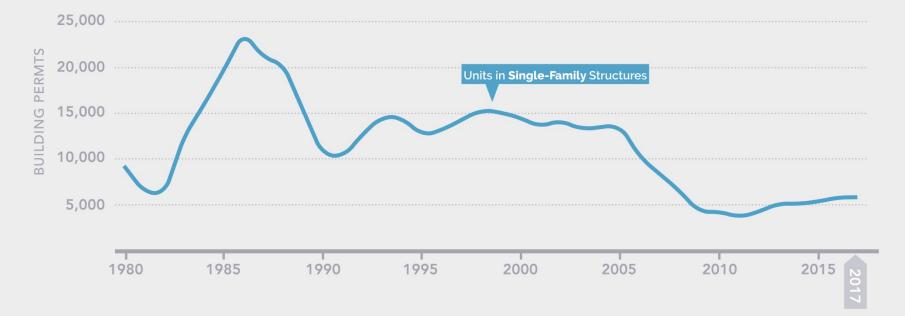
Community Impacts of Multifamily Development

The Inquirer

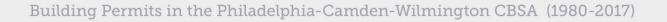
## Is Philadelphia getting too crowded? City Council president wants fewer apartments and more parking. | Inga Saffron

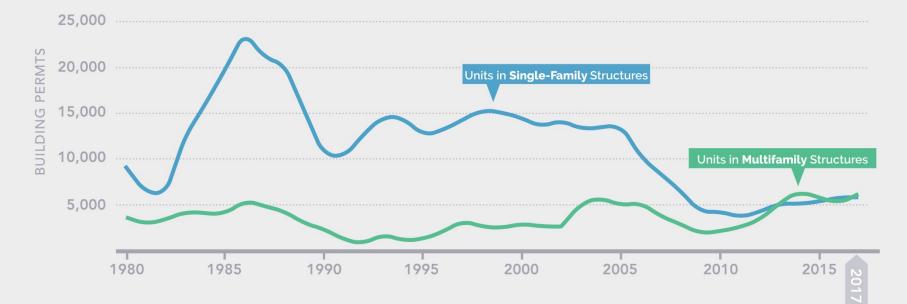
Updated: May 16, 2019 - 5:45 AM













#### Study Goal

Improve our understanding of the **local impacts** and **benefits** of higher density residential development in communities throughout Greater Philadelphia.



#### **Today's Presentation**

- Why study multifamily development?
- Project approach
- Key travel impacts and findings



Smart Growth development, with a mix of uses and housing types, is being embraced as an alternative to sprawl.



#### HOW CAN WE GROW RESPONSIBLY?

Manage growth and development while protecting our natural resources.

Our region is home to breathtaking beauty, but sprawling development patterns threaten our region's natural landscapes and resources. Our land is a source of local food, jobs, and outdoor recreational opportunities. It also saves us money by naturally cleaning our air and water, mitigating flooding, improving our health, and enhancing our quality of life.

Connections 2040 outlines strategies to preserve an additional 450,000 acres of farmland and open space by 2040 to help reach a goal of one million permanently protected acres in our region. Greater Philadelphia has already made progress having preserved more than 75,000 acres over the past five years. The Plan's land use vision continues this progress.

# LAND USE VISION

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#### BALANCING GROWTH WITH PRESERVATION.

Development and environmental protection must be balanced. Growth should be encouraged where infrastructure already exists to limit the cost of new transportation facilities and reduce energy use and environmental impacts.

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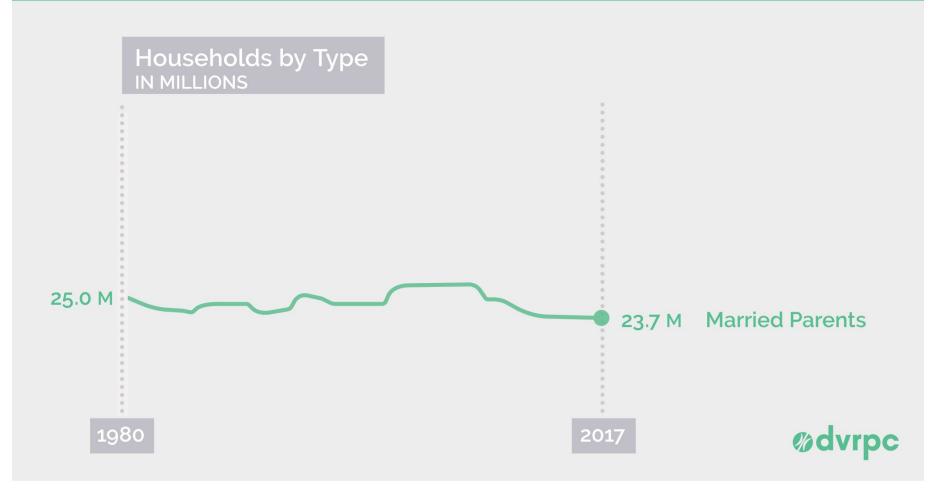
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The Land Use Vision Map defines areas for open space preservation (Rural Resource Lands and Greenspace Network) as well as development (Centers, Infill and Redevelopment, and Emerging Growth).

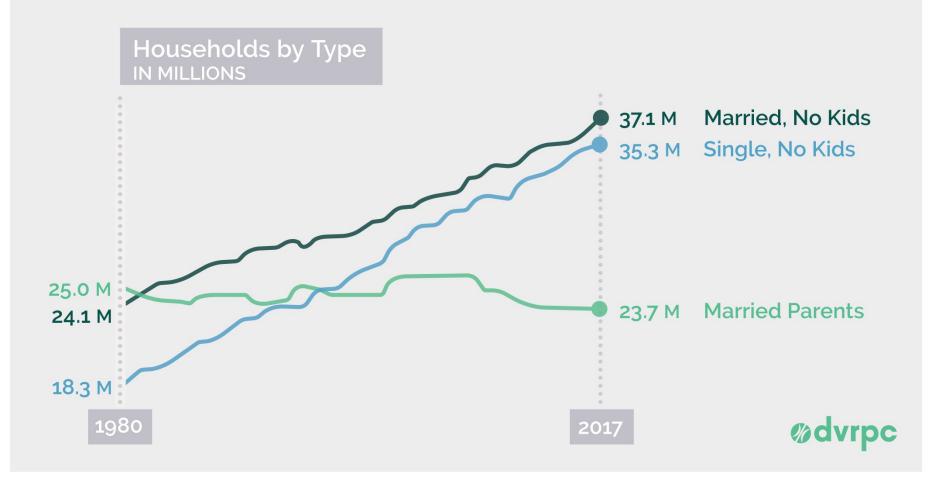
Our changing population is driving demand for new types of homes, offices, and retail spaces.



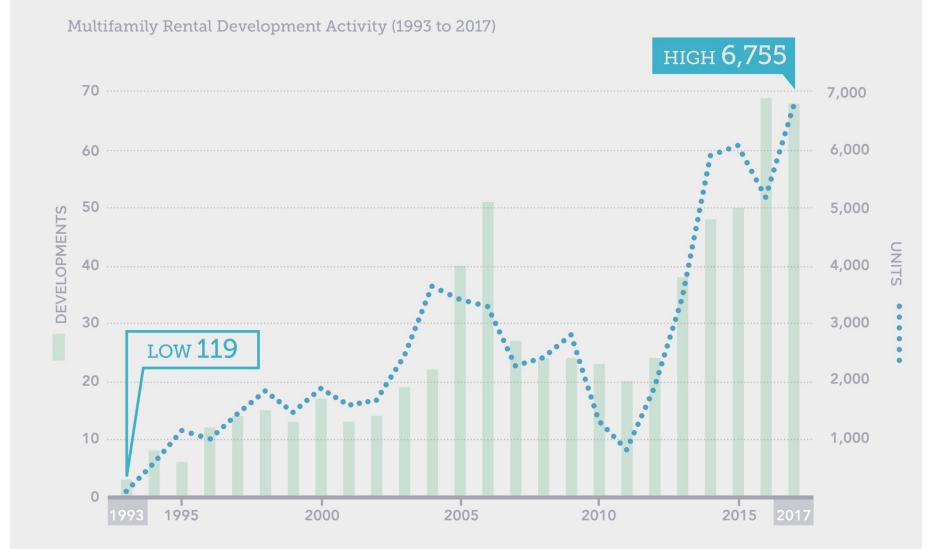
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#### Development Trends Greater Philadelphia's Multifamily Housing Boom



Higher density, mixed-use development is often **difficult to construct** because of existing zoning codes and opposition from the community.



Higher density, mixed-use development is often **difficult to construct** because of existing zoning codes and opposition from the community.

The New York Times

## The Bipartisan Cry of 'Not in My Backyard'

The housing secretary wants to encourage mixed-income, multifamily development as a way of making housing more affordable. But it's a notion homeowners of all political leanings tend to oppose

/rpc



By Emily Badger

Aug. 21, 2018

#### Why study multifamily development?

Higher density, mixed-use development is often difficult to construct because of existing zoning codes and opposition from the community.





#### Development Trends Greater Philadelphia's Multifamily Housing Boom







Source: CoStar

"Yet Philly's 'boom' is peanuts compared to Dallas, NYC, and other metros..."

**((())** JLL<sup>\*</sup>

Philadelphia Snapshot May 29, 2017

New apartment construction levels high across the region, but Philly is just catching up to the party



**Ødvrpc** 

#### Organizing the Potential Impacts of Development





DEVELOPMENT PROJECT

#### **Project Approach** Measuring the impacts and benefits of development

STEERING COMMITTEE

DEVELOPER INTERVIEWS

LITERATURE REVIEW

MARKET TRENDS

DEMOGRAPHIC MULTIPLIERS

TRAVEL OBSERVATIONS



STEERING COMMITTEE

DEVELOPER INTERVIEWS

LITERATURE REVIEW

MARKET TRENDS

DEMOGRAPHIC MULTIPLIERS

TRAVEL OBSERVATIONS

### What is a demographic multiplier?

An average ratio of demographic measures per occupied housing unit or per household.

Key Measures

- Average household size
- Number of school age children
- Vehicle availability



STEERING COMMITTEE

DEVELOPER INTERVIEWS

LITERATURE REVIEW

MARKET TRENDS

#### DEMOGRAPHIC MULTIPLIERS

TRAVEL OBSERVATIONS

#### **Data Products**

#### **Demographic Multipliers**

- Average Household Size
- School-Age Children
- Vehicles Available per Household

#### **Demographic Statistics**

- Age Cohorts
- Educational Attainment
- Means of Commute
- Commuting Time
- Income

- Occupation
- Race
- Hispanic Origin
- Household Type



#### Key Takeaways Focus on Vehicles Per Household

	- Single-	Family —	- Mu	ltifamily Rent	als —
DRAFT	Ħ				
	DETACHED	ATTACHED	STUDIO/1-BR	2-BR	3-BR
DVRPC REGION	1.99	1.26	0.76	1.23	1.33
CORE CITIES	1.55	1.00	0.55	0.95	0.83
DEVELOPED COMMUNITIES	2.01	1.52	0.90	1.34	1.72
GROWING SUBURBS	2.09	1.71	0.92	1.38	1.43

#### Project Approach Measuring the impacts and benefits of development

STEERING COMMITTEE

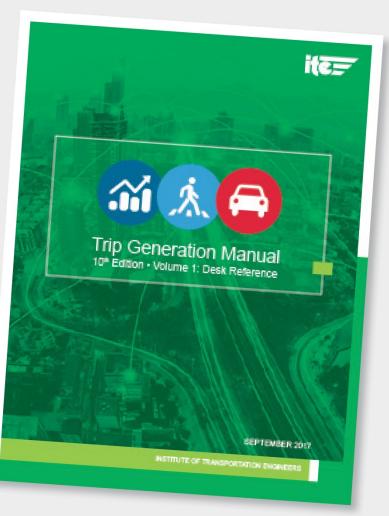
DEVELOPER INTERVIEWS

LITERATURE REVIEW

MARKET TRENDS

DEMOGRAPHIC MULTIPLIERS

TRAVEL OBSERVATIONS



#### **Project Approach** Measuring the impacts and benefits of development

**OBSERVATIONS** 

STEERING COMMITTEE						
DEVELOPER INTERVIEWS	ITE	TRIP GENERATION P	ER DWELLIN	IG UNIT: DA		ATE
LITERATURE REVIEW			dition, Septemb			
MARKET		DETACHED	LOW-RISE 1-2 stories	MID-RISE 3-10 stories	HIGH-RISE 11+ stories	
TRENDS		9.54	7.32	5.44	4.45	
DEMOGRAPHIC MULTIPLIERS		Trips per day		Trips per day		
TRAVEL						

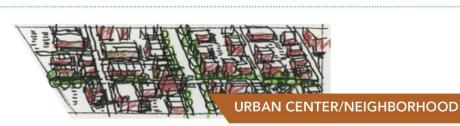
# Appendix



#### LAND USE & TRANSIT CONTEXT







SMART TRANSPORTATION **GUIDEBOOK** 

Planning and Designing Highways and Streets that Support Sustainable and Livable Communities

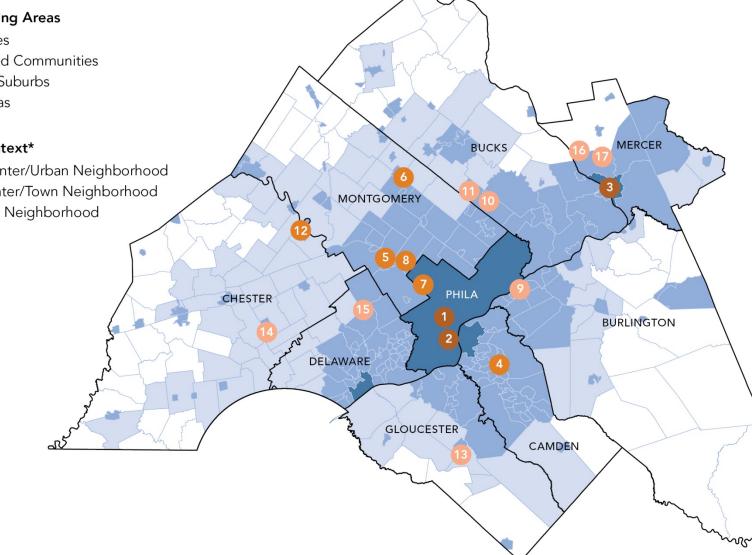


#### **DVRPC** Planning Areas

- Core Cities
- **Developed Communities**
- **Growing Suburbs**
- **Rural Areas**

#### Land Use Context\*

- Urban Center/Urban Neighborhood
- Town Center/Town Neighborhood
- Suburban Neighborhood



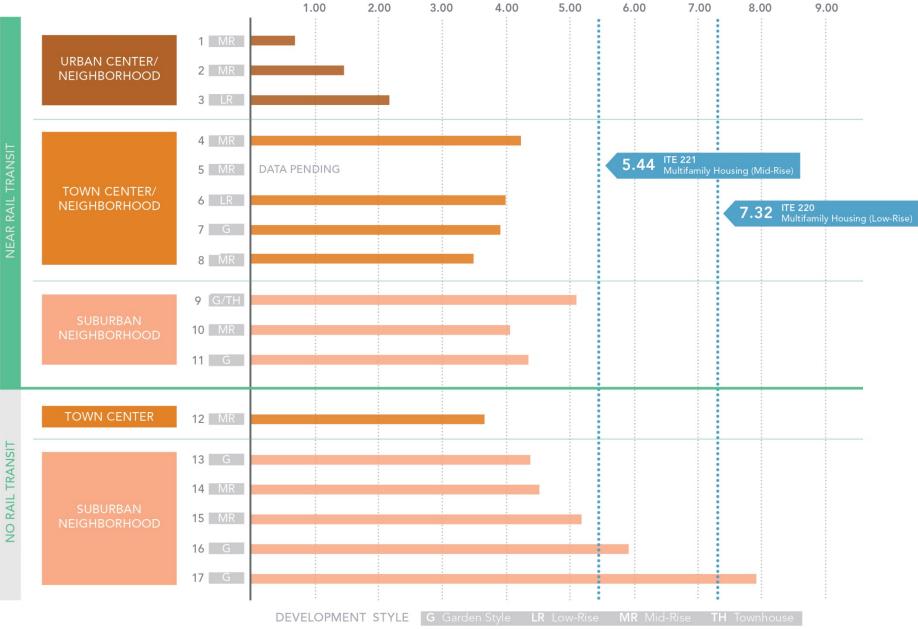
\* The land use contexts of each development site is based on classifications described in the Smart Transportation Guidebook. For more information, please visit: www.dvrpc.org/products/08030A.



#### Figure 1: Observed AM Peak Hour Vehicular Trips per Dwelling Unit



#### Figure 2: Observed Daily Vehicular Trips per Dwelling Unit



# Traffic Impacts of Multi-Family Development

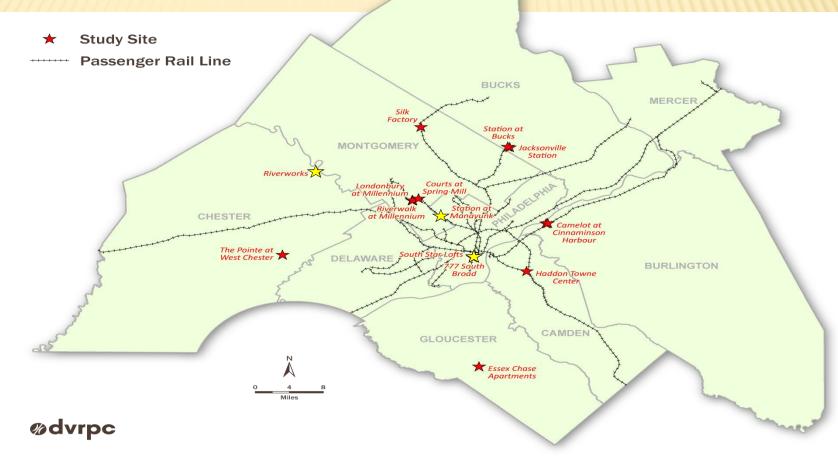
# QUESTION

- × What is the vehicle trip reduction benefit of TOD?
- \* There are only a few studies of vehicle trip generation and parking demand at multifamily developments near transit.
- The question of how much vehicle trip and parking demand reduction occurs with TOD is largely unexplored in the literature.
- Everyone agrees that there should be some reduction, but how much?

# **DATA COLLECTION METHODOLOGY**

- × We counted vehicle trips at 13 sites
- × Data collected in 2018
- × In most cases, both Daily and AM Peak Hour
- Trip rates are per occupied unit
- × We also counted parking occupancy
- Compared local data to ITE rates (10<sup>th</sup> edition Trip Gen, 4<sup>th</sup> edition Parking Gen)

# **LOCATION OF STUDY SITES**



# **URBAN CENTER NEAR RAIL – SOUTHSTAR LOFTS**



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# SITE DATA

Number of Units	Occupied	Floors	Distance to Rail Transit (miles)
85	78	7	0.0 – subway station right below building



# **VEHICLE TRIPS – ITE VERSUS OBSERVED**

ITE Category	Trips - AM Peak Hour	Trips -Daily	Trip Rate – AM Peak Hour	Trip Rate - Daily
Mid-rise apartment (221)	28	424	0.36	5.44

Observed	Trips - AM Peak Hour	Trips -Daily	Trip Rate – AM Peak Hour	Trip Rate - Daily
	8	54	0.10	0.69

# **PARKING – ITE VERSUS OBSERVED**

ITE Category	Units	Spaces	Spaces per Unit
Mid-rise apartment (221)	85	119	1.40

Observed (5:00 AM)	Spaces	Spaces per Unit	Occupied Spaces	Empty Spaces
	85	1.00	85	0

# **TOWN CENTER NEAR RAIL -STATION AT MANAYUNK**



# SITE DATA

Number of Units	Occupied	Floors	Distance to Rail Transit (miles)
149	) 142	3	0.0 – rail station is right outside their front door



# **VEHICLE TRIPS – ITE VERSUS OBSERVED**

ITE Category	Trips - AM Peak Hour	Trips -Daily	Trip Rate – AM Peak Hour	Trip Rate - Daily
Mid-rise apartment (221)	51	772	0.36	5.44

Observed	Trips - AM Peak Hour	Trips -Daily	Trip Rate – AM Peak Hour	Trip Rate - Daily
	44	555	0.31	3.91

# **PARKING – ITE VERSUS OBSERVED**

ITE Category	Units	Spaces	Spaces per Unit
Mid-rise apartment (221)	149	209	1.40

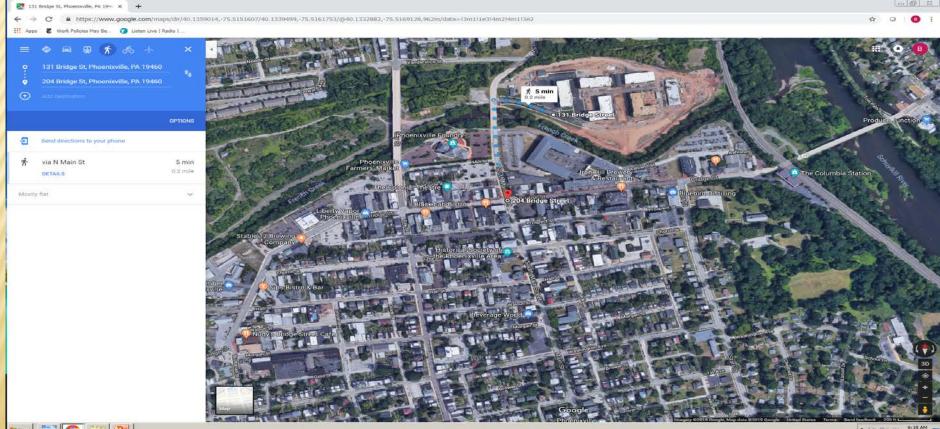
Observed (5:00 AM)	Spaces	Spaces per Unit	Occupied Spaces	Empty Spaces
	241	1.62	195	46

# **TOWN CENTER NO RAIL – RIVERWORKS**



**ødvrpc** 

# **PROXIMITY TO DOWNTOWN PHOENIXVILLE**



# SITE DATA

Number of Units	Occupied	Floors	Distance to Rail Transit (miles)
349	276	5	Not located near rail – 12 miles to Norristown Transportation Center



# **VEHICLE TRIPS – ITE VERSUS OBSERVED**

ITE Category	Trips - AM Peak Hour	Trips -Daily	Trip Rate – AM Peak Hour	Trip Rate - Daily
Mid-rise apartment (221)	99	1,501	0.36	5.44

Observed	Trips - AM Peak Hour	Trips -Daily	Trip Rate – AM Peak Hour	Trip Rate - Daily
	112	1,010	0.41	3.66

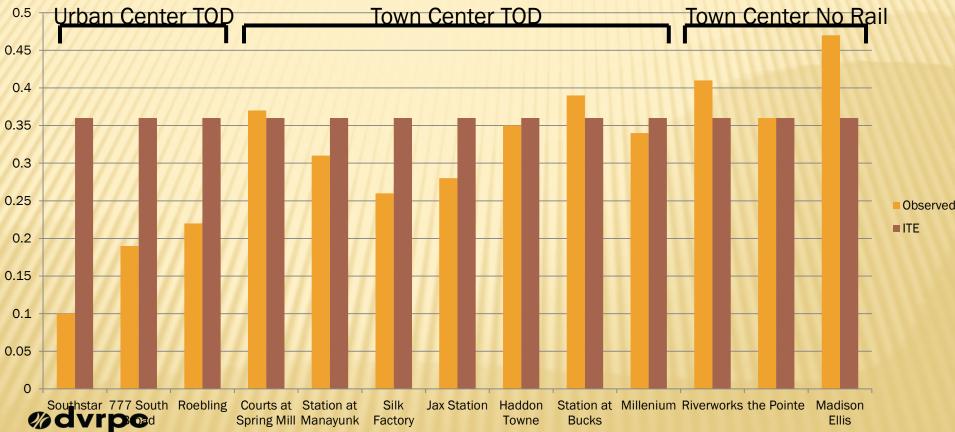
# **PARKING – ITE VERSUS OBSERVED**

ITE Category	Units	Spaces	Spaces per Unit
Mid-rise apartment (221)	349	489	1.40

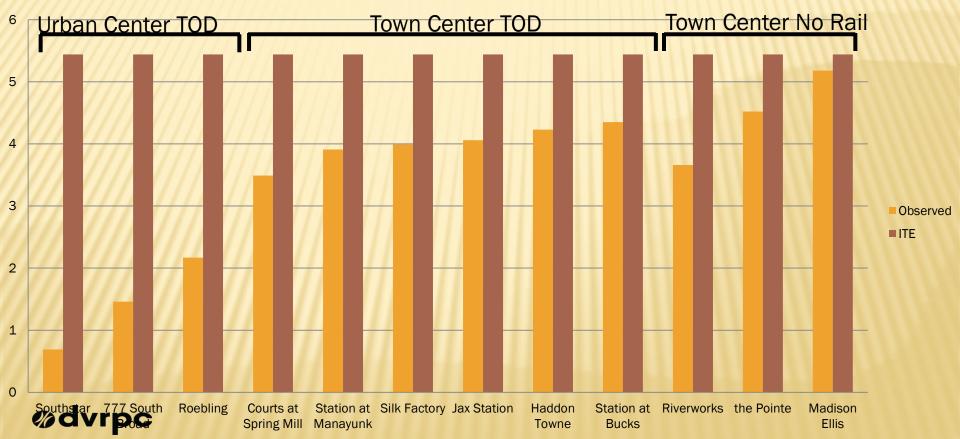
Observed (5:00 AM)	Spaces		Occupied Spaces	Empty Spaces
	515	1.48	335	180

### DATA FOR ALL STUDY SITES

# **AM PEAK HOUR**



# DAILY



# **SUMMARY – RANGES FOR ALL SITES**

		AM Peak Trip Rate		Daily Trip Rate	
	Number of sites	ITE	Observed	ITE	Observed
Urban Center TOD	3	0.36	0.10 - 0.22	5.44	0.69 - 2.17
Town Center TOD	7	0.36	0.26 - 0.39	5.44	3.49 - 4.35
Town Center No Rail	3	0.36	0.36 - 0.47	5.44	3.66 - 5.18

### **CONCLUSIONS / RECOMMENDATIONS**

- The data shows real vehicle trip reduction benefits to TOD – especially at the "urban" sites
- × Use our local trip gen rates, not ITE
- But for parking, wondering whether we should recommend using ITE's 1.40 spaces / unit as an upper threshold?





### DATA FOR THE SURROUNDING CENSUS TRACT

Walk Share	Transit Share	Vehicles per HH	Median HH Income
37.2%	24.7%	0.58	\$72,869



### DATA FOR THE SURROUNDING CENSUS TRACT

W	Valk Share	Transit Share	Vehicles per HH	Median HH Income
	1.8%	25.3%	1.54	\$71,280



### DATA FOR THE SURROUNDING CENSUS TRACT

Walk Share	Transit Share	Vehicles per HH	Median HH Income
2.0%	2.8%	1.71	\$89,360



### CAVEATS

- This data reflects Philadelphia conditions / travel behavior
- x This was a pretty simple (but feasible and affordable) approach
- × Small sample size
- Question as to how representative residents of these new multifamily projects are, in terms of race, age, income, ....

#### **ødvrpc**



 US DOT Metropolitan Transportation Planning and Programming Regulations require MPO's to certify that its transportation planning and programming process is in conformance with all applicable federal regulations

 Undertake a Continuing, Cooperative, and Comprehensive performance-based, multimodal transportation planning and programming process

TIP and Long Range Plan are consistent with the Clean Air Act



- Private citizens and affected public agencies were provided with a reasonable opportunity to comment on the TIP, Long Range Plan, and planning process
- The TIP is financially constrained
- The CMP requirements have been met
- Performance-based planning approach is being integrated through coordination with state and federal partners on the development of performance measure targets



- Developed and maintain a Coordinated Human Services Transportation Plan (currently titled Equity Through Access) with state, county, and transit agency partners
- The planning process considers improvements to resiliency and reliability of the transportation system and enhancements to travel and tourism
- Meets restrictions on lobbying
- Complies with the requirements of Title VI of the Civil Rights Act, and incorporates Environmental Justice considerations for minority and low-income populations
- Prohibits discrimination and complies with the guidelines of EEO, DBE, ADA, and OAA



- DVRPC's Four-Year Federal Certification Review Final Report indicates that the Review's one Corrective Action related to updates to required language in our contracts has been addressed
- DVRPC elects to continue to use the exception provision regarding transit agency representation on MPO boards while continuing the transit agencies participation as nonvoting members of the Board and voting members of the RTC
- DVRPC certifies that it qualifies for this exception



### **Action Proposed**

That the RTC recommends that the Board adopt Resolution No. B-FY19-002 certifying that the DVRPC Metropolitan Transportation Planning and Programming Process is in conformance with federal regulations implementing the FAST Act, MAP-21, the Clean Air Act Amendments, and other pertinent federal legislation. Ben Gruswitz, AICP Regional Technical Committee June 11, 2019

# 2020 Census Participant Statistical Areas Program (PSAP) Update



## What's PSAP?



## PSAP 2020 What is it?

- Participant Statistical Areas Program (PSAP)
- Review & update statistical area boundaries
  - Census tracts
  - Block groups
  - Census designated places (CDPs)
- For 2020 Census data tabulation & subsequent 10 years of ACS data



### Census Geography Hierarchy

BAS **PSAP Boundary & Annexation Survey** Minor Civil Division (MCD) or County Census County Division (CCD) Place **Green City** Jones Township Twp. Twp Twp. Smith County 5.01 6 2 3 Twp. Green City 5.02 Twp. 4 1001 1002 Census Tract 5.02 3012 3012 ak Lane Block Group 3 3013 1004 Block 3014 2002 2004 3014 2003 3013 2005 2007 Piney Hollow Road 2006 Block Block Group **Census Tract** Redistricting **PSAP PSAP** 

@dvrpc

### **Basic PSAP Criteria & Actions**

### Tracts

- Population: 1,200 8,000
- Housing Units: 480 3,200

### **Block groups**

- Nest within Tract
- Population: 600 3,000
- Housing Units: 240 1,200

What if it's... Under? merge with adjacent polygons until it meets criteria Over? split into 2 or more new polygons meeting criteria



### Roles

To the Census Bureau, DVRPC is a Primary Participating Organization (PPO)

- Kim Korejko | Primary Contact
- Ben Gruswitz | Technical Contact
- Mark Gatti | Technical Contact

**DVRPC** Member Counties

- Coordinate with DVRPC, municipalities, others
- Review current geographies and resources
- Meet with DVRPC to propose changes





2020 CENSUS PSAP UPDATE

- Census Bureau discontinued support of the transportation analysis zones (TAZ)
- Census Transportation Planning Products (CTPP)
  - special tabulation reported by TAZ
  - key for local travel model data inputs
- No more TAZ Delineation Program



Response from CTPP Program Oversight Board

- For new data releases changed smallest geography to block group instead of TAZ
- Got word out to MPOs and others to
  - help change PSAP rules to allow block groups to be more like TAZs
  - get involved with PSAP



Pre-delineation efforts from DVRPC

- Submitted proposed changes PSAP Criteria to Federal Register along with MPOs across the country
- Reached out to counties to anticipate an effort to bring block groups and TAZ into conformance with each other



## Successful Criteria Change

"Special Use" tracts and block groups

- non-residential areas like large parks or airports
- dropped previous minimum 1 square mile requirement
- similar size to surrounding residential geographies
- employment centers: suggested minimum jobs
  - tract: 1,200
  - block group: 600



## **Approach to Delineation**



2020 CENSUS PSAP UPDATE

## Census Designated Place (CDP)

- deference to counties
- create/alter as necessary



2020 CENSUS PSAP UPDATE

### Tracts

- Generally preserve unless merge or split needed
- Create special land use tracts in clearly defined non-residential employment centers
- Municipal or Planning District boundary adjustments



## **Reconciling Block Groups & TAZs**

1 Block Group = 1 TAZ Many Block Groups = 1 TAZ Many TAZs = 1 Block Group Minimal Pop No Population The Rest

Created layer of "building blocks" for block groups



2020 CENSUS PSAP UPDATE

## **County Meetings**

### 11 (mostly) day-long meetings in "geographic war room"





2020 CENSUS PSAP UPDATE

## **Benefits of Nesting & New Criteria**

- Model outputs align with census geographies
- Model inputs align with latest 5-year ACS
- Better alignment with MCDs & Planning Districts
- More block group level data via the CTPP
- Land use distinctions (malls don't have demographics)



## Census Bureau PSAP 2020 Timeline

**Delineation** January – June 2019 **Census Bureau Review** July – December 2019 Verification January – March 2020 **Final PSAP updates complete** May 2020



## **Municipal Boundaries**

- Census municipal boundaries often off from reality
- PSAP not time to correct it
- Tied tract & block groups to municipal boundaries where appropriate
- Boundary & Annexation Survey (BAS) is the annual opportunity to correct
- Tracts & block groups will move with MCD



## THANK YOU! to County & DVRPC staff members!



2020 CENSUS PSAP UPDATE

# Thank You!



Questions? Contact: Kim Korejko or Ben Gruswitz





**REGIONAL TECHNICAL COMMITTEE MEETING** JUNE 11, 2019

## Background

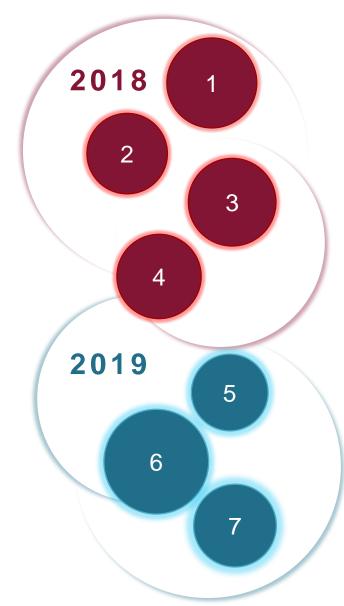
- US 202 connects 4 suburban PA counties in the region
- Section 100 serves as a vital link to DE and local arterial
- Chester County is the fastest growing county in Southeastern PA
- County **population and employment** are projected to increase by **28.4% between 2015-2045**



## Objective

 This study identifies recommendations to improve the operational efficiency of US 202 Section 100 from Matlack Street to Skiles Boulevard





Identify study area

Confirm scope of work

Collect and analyze data

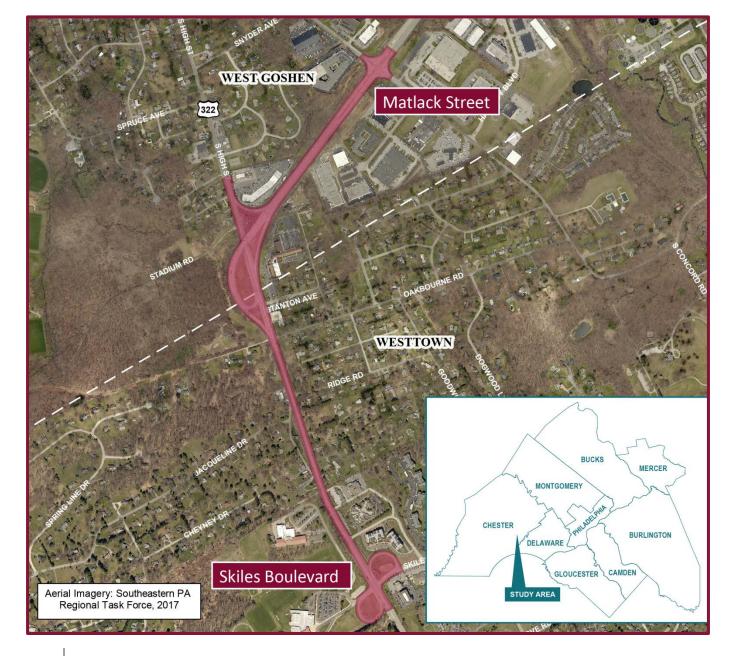
Model Existing conditions

Model future No Build and Build conditions

Identify other improvements and congestion mitigation strategies

**Deliver final report** 

ødvrpc Project Timeline



ødvrpc Study Area

## **Study Area Characteristics**



## **Safety: Reported Crashes**

- Majority of crashes between 2013-2017 were rear-end (52%), followed by angle crashes
- 188 total crashes (26% in 2017)
- A gradual increase over the 5-year period
- 2 fatalities
- 9 crashes on SB ramp or near High Street merge with SB US 202



## **Safety: Speeds and Conditions**

- Recommended SB ramp speed is 30 mph
- The **average speed** recorded during free flow conditions was **44 mph** (12 observations)
- No street lights
- Rumble strips, RPMs, and chevron signs



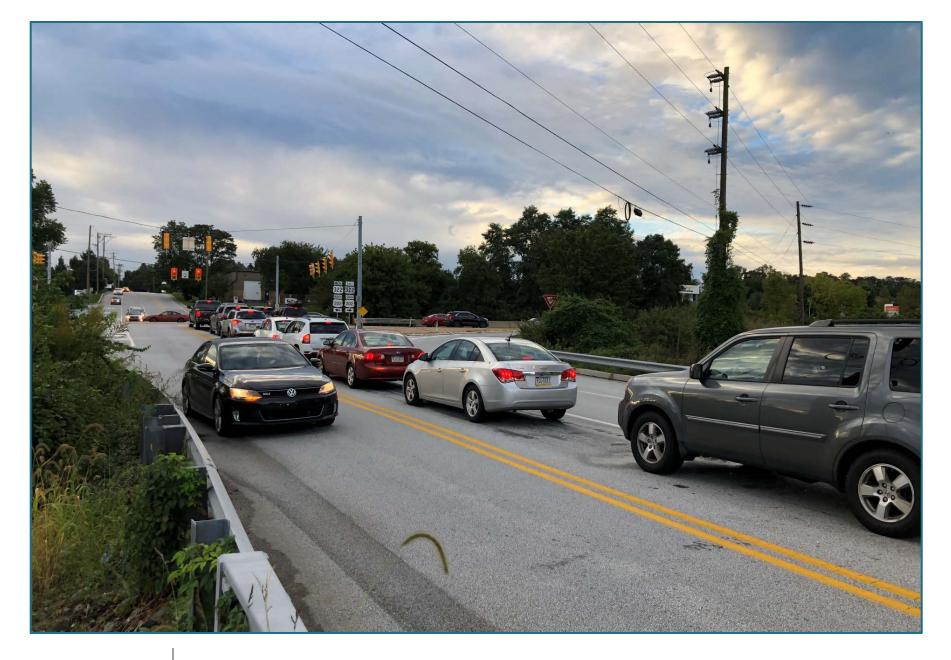


## ødvrpc US 202 SB Ramp over High Street

## **Traffic Volumes**

- AM Peak Hour is 7:00 AM to 8:00 AM
- PM Peak Hour is 4:30 PM to 5:30 PM
- **NB volumes** are higher than SB volumes in the **AM**
- **SB volumes** are higher than NB volumes in the **PM**
- Significant EB left-turn queue at Matlack Street during the peak hours





## ødvrpc | EB Approach at Matlack Street



### ødvrpc EB Approach at Matlack Street

## **Existing Ramp Design**





## ødvrpc | NB Ramp Existing Conditions



## ødvrpc US 202 NB Ramp Exit



### ødvrpc High Street Merge with NB Ramp



## ødvrpc SB Ramp Existing Conditions



## ødvrpc US 202 SB Ramp

## **Highway Performance**



## **Scenarios**

Existing		No Build	Build
•	Fall 2018 Traffic Counts	<ul> <li>Background growth rate based on 2045 long-range forecasts for development, employment, and population</li> </ul>	<ul> <li>3 final scenarios</li> </ul>

## **LOS Definitions**

LOS (v/c ≤ 1.0)	Control Delay (sec/vehicle)	Qualitative Description of Traffic Operations
A B C	≤ 10 > 10-20 > 20-35	Stable and Predictable
D	> 35-55	Predictable, but Approaching Unstable
E F	> 55-80 > 80	Unstable and Unpredictable



# LOS (95%)

	AM Existing	AM No Build	PM Existing	PM No Build	
US 202 and Matlack	С	F	D	E	
High and Parkway	В	В	В	В	
US 202 and Skiles	А	С	А	В	



## Matlack Street EB Approach

	AM Existing	AM No Build	PM Existing	PM No Build
Approach Volume	387	491	467	600
Approach LOS	E	F	F	F



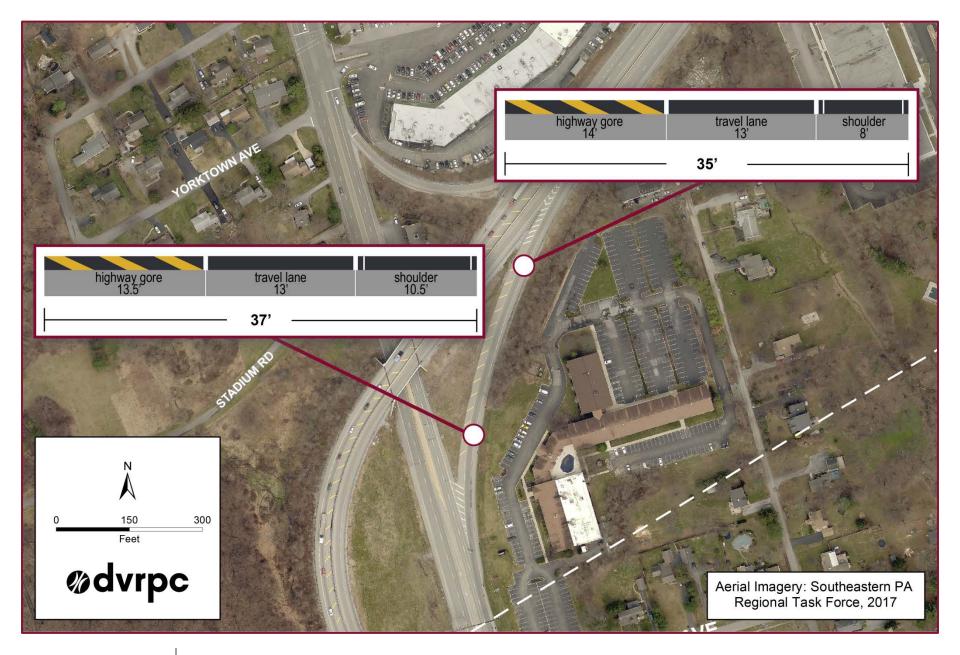
# Travel Times (95%)

	AM Existing	AM No Build	PM Existing	PM No Build
NB US 202 (1.4 mi)	3 min	6 min	3 min	5 min
SB US 202 (1.5 mi)	3 min	6 min	3 min	4 min
EBL Matlack (0.3 mi)	2 min	6 min	4 min	3 min

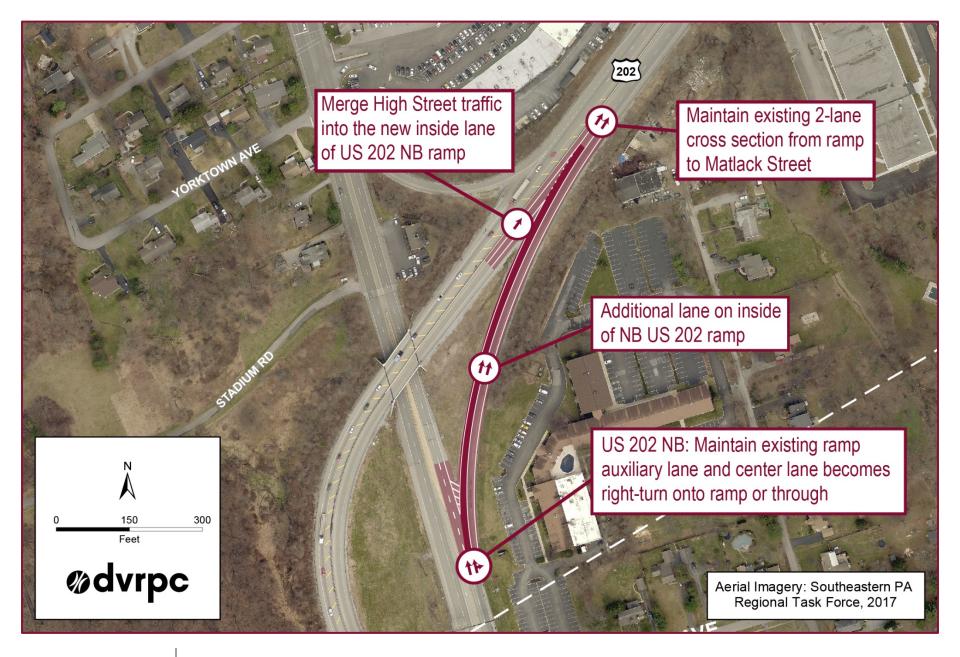


## **Improvement Alternatives**

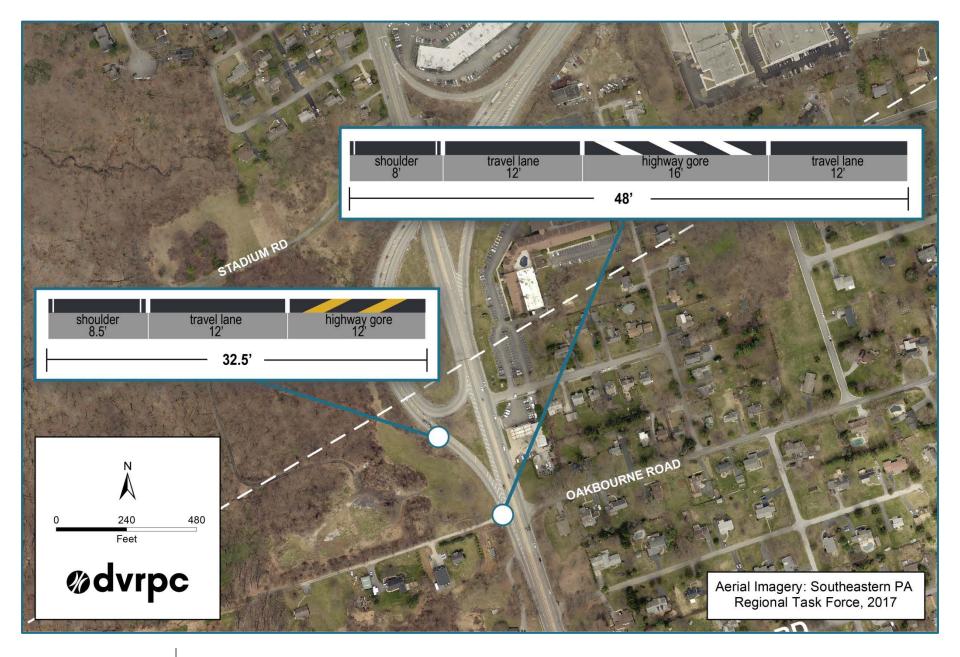




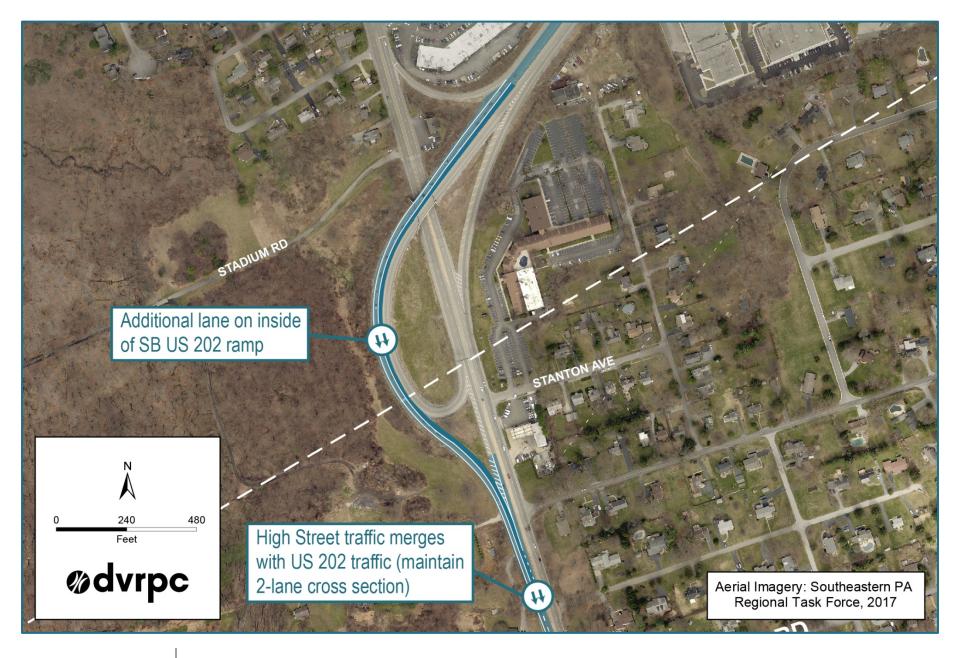
### ødvrpc Existing Cross Section – NB Ramp



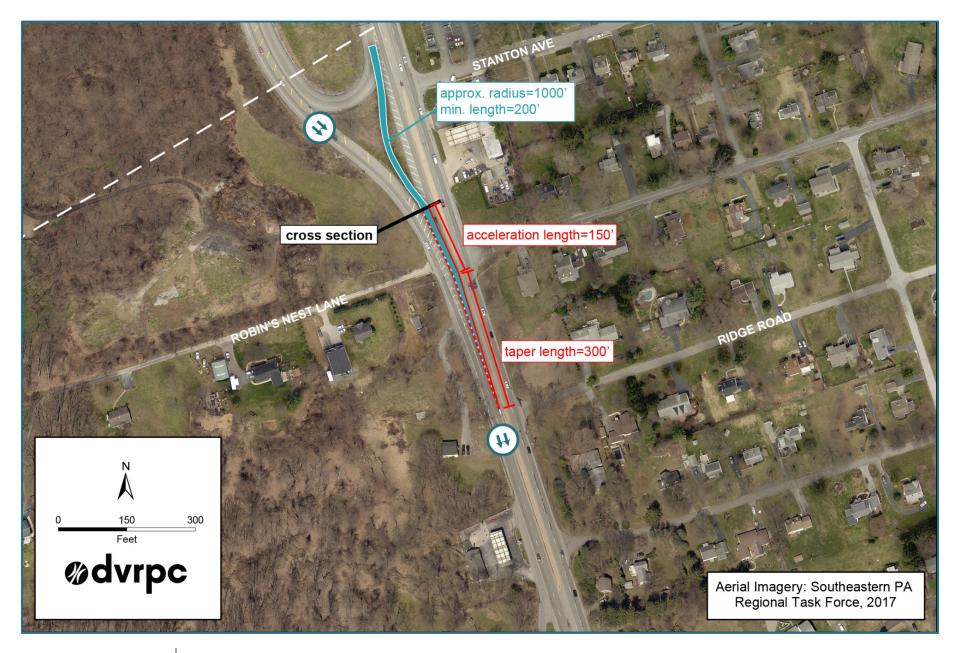
### **ødvrpc** NB Alternative 1



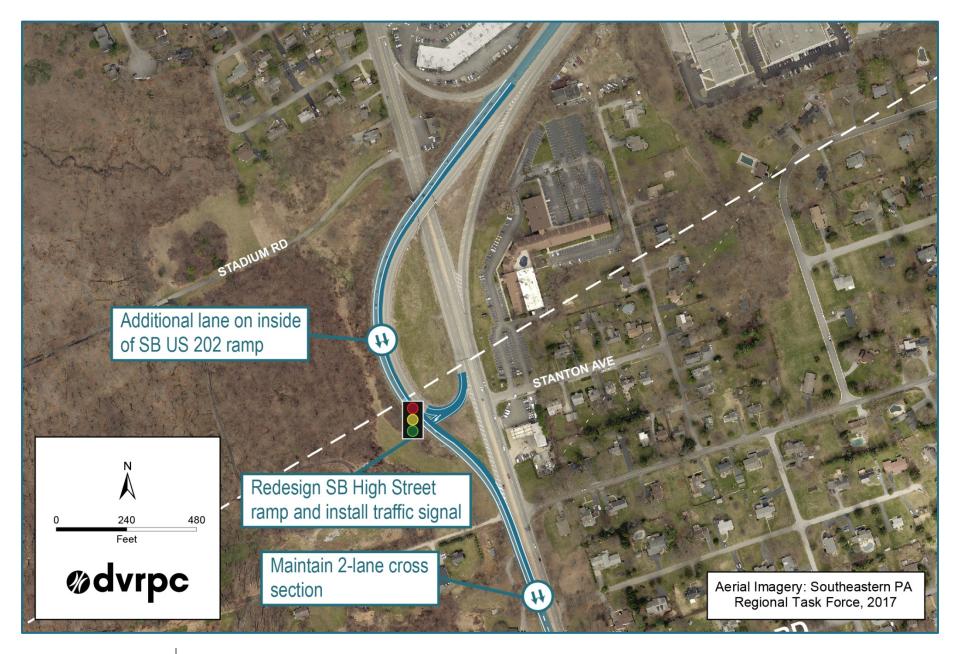
## ødvrpc Existing Cross Section – SB Ramp



**ødvrpc** SB Alternative 1



### **ødvrpc** SB Alternative 2



### ødvrpc | SB Alternative 3

## **Build Scenarios**



## **Benefits of Build Scenarios**

- Improve LOS at nearby intersections
- **Decrease travel times** in future year 2045
- Eliminate bottlenecks at start of the NB and SB ramps
- Additional traffic control and clearer transitions from High Street to US 202 could **improve safety**
- Double left-turn lane on EB Matlack approach reduces intersection delay
- Maintain 2-lane cross section on US 202 main line

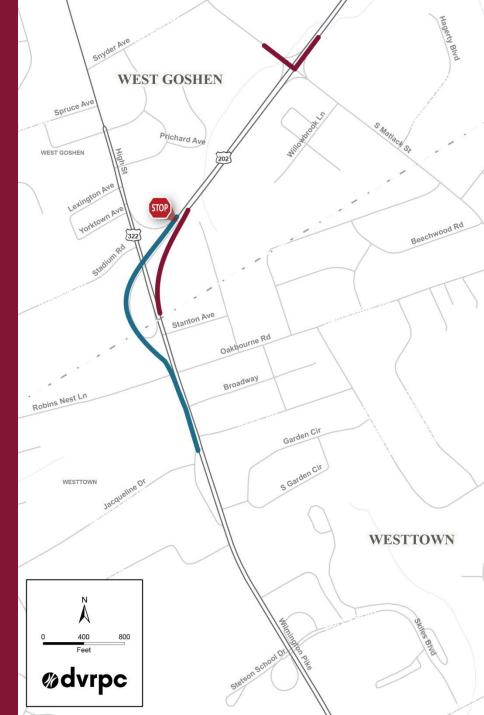
# Scenario 1

#### Pro

 Design most similar to existing conditions (maintain lane control)

#### Cons

- SB High Street traffic has less time to make a SB right-turn at Old Wilmington Pike
- Requires median
   reconstruction



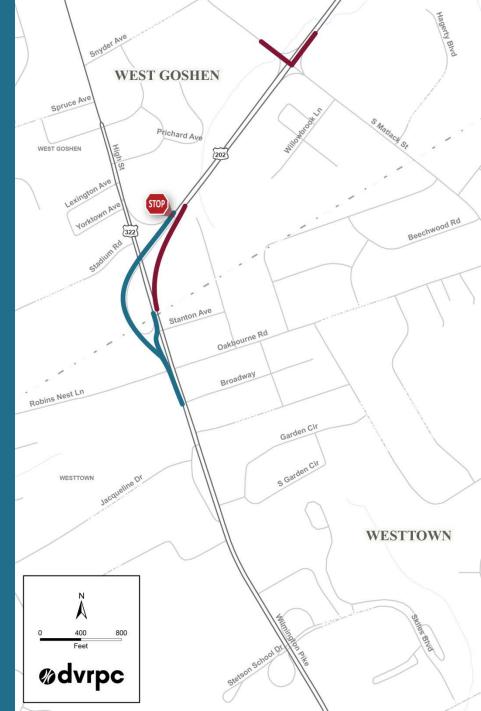
# Scenario 2

#### Pros

- Clearer transition from High Street to SB US 202
- High Street traffic has more time to make SB right-turn at Old Wilmington Pike

#### Con

Requires median
 reconstruction



# Scenario 3

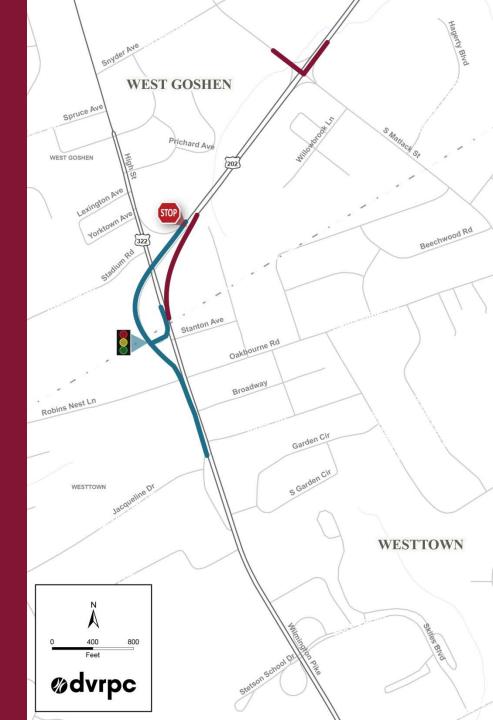
#### Pro

 Safer way for SB High Street traffic to merge with SB US 202 traffic

#### Con

 Higher SB travel time than other two scenarios

## %dvrpc



# LOS (95%)

	AM No Build	PM No Build	Scenario 1 (AM/PM)	Scenario 2 (AM/PM)	Scenario 3 (AM/PM)
US 202 and Matlack	F	E	D	D	D
High and Parkway	В	В	В	В	В
US 202 and Skiles	С	В	В	В	В

# Travel Time (95%)

	Scenario 1		Scen	Scenario 2		Scenario 3	
	AM PM		AM	PM	АМ	РМ	
NB US 202 (1.4 mi)	4 min	3 min	4 min	3 min	4 min	3 min	
SB US 202 (1.5 mi)	2 min	3 min	2 min	3 min	3 min	3 min	
EBL Matlack (0.3 mi)	2 min	2 min	2 min	2 min	2 min	2 min	



## **Next Steps**

- Final steering committee meeting (Summer 2019)
- Publish report (Summer 2019)



## Questions

CONTACT: Karen Whitaker Transportation Planner kwhitaker@dvrpc.org