Vision Zero:

Choose your Own Adventure



APAPA CONFERENCE OCTOBER 22, 2019

VISION ZERO

CITY OF PHILADELPHIA

WHAT IS VISION ZER0?

What is Vision Zero?

A policy that states clearly that traffic deaths are preventable and unacceptable.

CORE PRINCIPLES:

Human life takes priority over mobility;

Human error is inevitable and unpredictable;

People are inherently vulnerable and speed is a fundamental predictor of crash survival;

Safe human behaviors, education, and enforcement are essential contributors to a safe system.

WHEN A PERSON IS HIT BY A DRIVER AT...



1 OUT OF 10 DIE



5 OUT OF 10 DIE



9 OUT OF 10 DIE

Slowing down saves lives.

Why Vision Zero in Philadelphia?

Every year, there are nearly 10,000 reported crashes on Philadelphia streets.

5-YEAR TREND:

2014: 82 killed / 223 severely injured

2015: 83 killed / 250 severely injured

2016: 96 killed / 252 severely injured

2017: 78 killed / 244 severely injured

2018: 91 killed / 249 severely injured

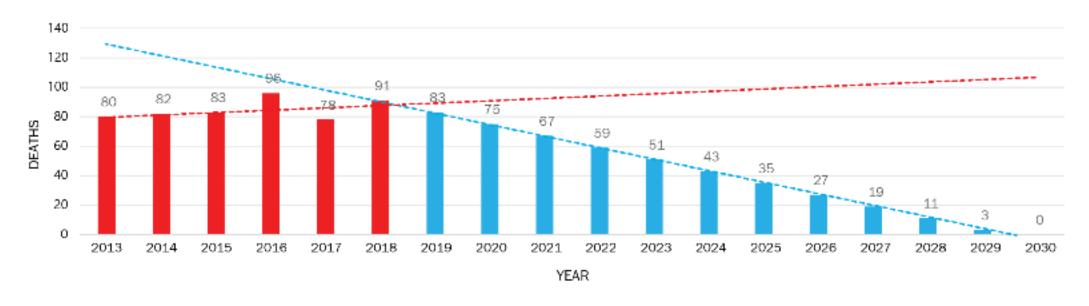
100 PEOPLE EVERY YEAR



100 people are killed in traffic related crashes.

Vision Zero trendline

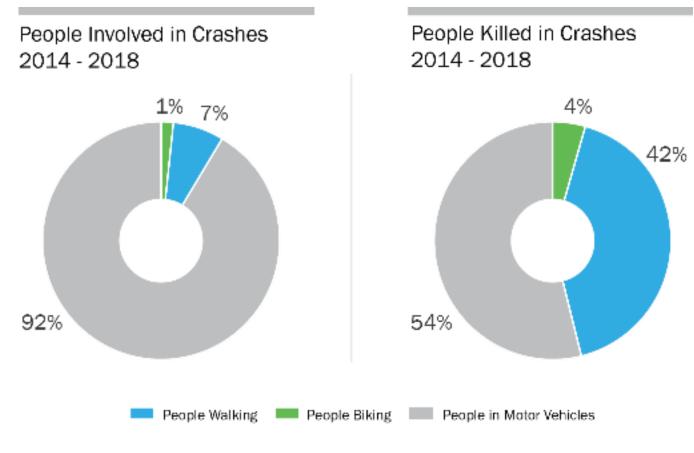
Current & Desired Trendline for Vision Zero in Philadelphia



Current trajectory Desired trajectory

Source: PennDOT, 2013 - 2018

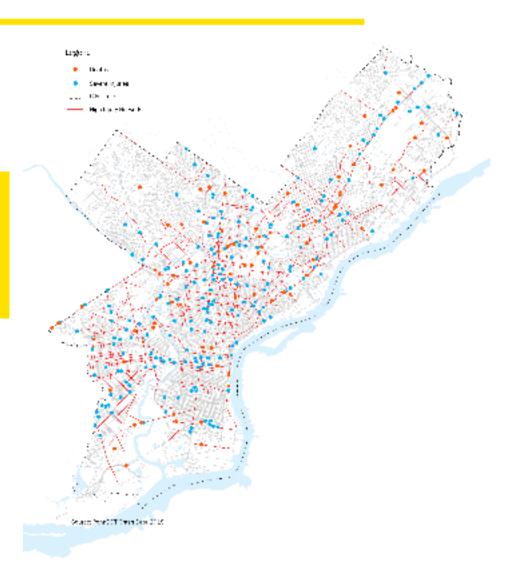
Traffic deaths by mode



Source: PennDOT 2014 - 2018

High Injury Network

50% of killed and serious injury crashesoccur on only 12% of city streets





OUR CITY AND OUR FAMILIES DESERVE SAFER STREETS.

Zero traffic deaths by 2030.

HOWFAR WE'VE COME IN OUR FIRST YEAR

Evaluation and Data

TraCS – PPD is transitioning from paper crash reports and citations to electronic crash reports and citations.

Vision Zero Research Partnership

Neighborhood Pedestrian & Bicycle Counters —Six permanent counters are being placed outside Center City, all of which are in pedestrian-oriented commercial corridors and within two blocks of two or more segments on the High Injury Network.

Vision Zero project tool – To explore the map, visit www.VisionZeroPHL.com.



Engineering

Market/JFK Vision Zero Pilot Project

South Broad Street Intersection Safety
Modifications

American St construction underway

Lincoln Drive construction underway

Resurfacing & integrated safety upgrades —Each resurfacing project is an opportunity to improve the design of a street.



Education

I'We Meet in the Street" public educational campaign — In July 2018, the City launched its first Vision Zero public education campaign "We Meet in the Street," which aims to educate the public about dangerous driving behaviors that can lead to serious crashes and traffic deaths.

Vision Zero technical education –Vision Zero kicked off "Vision Zero electives" for City employees and Vision Zero sub-committee members.



Fleet management

Upgraded truck safety: Including 360-degree cameras, cross-view

mirrors, and sideguard panels.

What are sideguard panels?

Side guard panels are installed between the wheels of large vehicles that prevent anyone walking or biking from being swept under the tires of a truck after a side impact. Side guard panels are proven, simple, and effective pedestrian and bicycle safety tool.



2019 PROJECTS AND PROGRAMS

Neighborhood Slow Zone applications

By the January 18, 2019 deadline, the City received (28) complete Slow Zone applications that were scored.

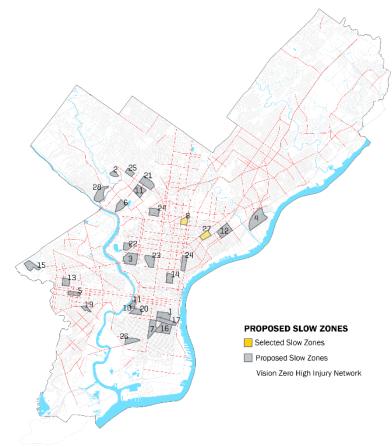
SCORING

Crash history

Vulnerable users

- Percent of households below 18
- Percent of households over 60
- Percent of households living below the poverty line

Community places



What is a Slow Zone in Philadelphia?

A new Vision Zero program that brings 20MPH speed limits and traffic calming to a clearly marked zone of residential streets.

NEIGHBORHOOD SLOW ZONE PROGRAM WILL:

Work with neighbors to develop a plan for traffic calming that responds to critical traffic safety issues

Lower speed limits to 20MPH

Install gateway treatments

Be self-enforced by traffic calming (speed cushions and more)



Our vision for bicycling

Every Philadelphian should have access to a safe and comfortable bikeway within a quarter a mile of their home, whether they're 8 or 80 years old.



Strong and Fearless: People willing to bicycle with limited or no bicycle-specific infrastructure

Enthused and Confident: People willing to bicycle if some bicycle-specific infrastructure is in place

Interested but Concerned: People willing to bicycle if high-quality bicycle infrastructure is in place No Way, No How: People unwilling to bicycle even if high-quality bicycle infrastructure is in place

High Quality Bike Network



Protected Bike Lanes

Protected bike lanes are physically separated from traffic using measures such as flexible posts, concrete barriers, or lanes of parked vehicles.



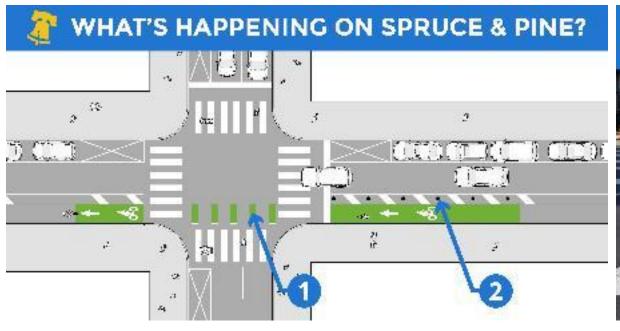
Neighborhood Bikeways

Neighborhood Bikeways are projects focused on making residential streets calmer and more inviting to walk, bike, and spend time on.



Pine and Spruce

Paving and safety project in progress





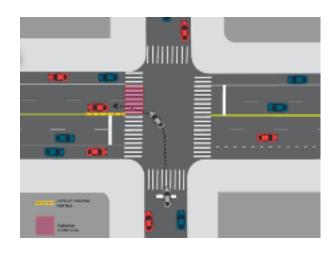
- 1 Green markings through intersections. Drivers should yield to people biking & walking.
- 2 Flexible posts at most intersections to protect people biking from turning vehicles.

N Broad hardened centerlines

The City and PennDOT partnered to pilot hardened centerlines on a segment of High Injury Network corridor, N. Broad from Allegheny to Venango

Hardened centerlines:

- Prevents illegal U-turns
- Slows turning speeds
- Improves driver visibility





What else is on deck?

> Zero traffic-related deaths in Philadelphia by 2030.

More in 2019:

Automated Speed Enforcement on Roosevelt Boulevard

Vision Zero Pedestrian Safety Study and Action Plan

Accelerated designs for:

- Parkside Avenue,
- North Broad St medians,
- Summer/Adams/Roosevelt Boulevard

Vision Zero for Youth Partnership



CHANGE THE CONVERSATION ABOUT VISION ZERO





Sarah Clark Stuart
American Planning Association, Pennsylvania
October 22, 2019

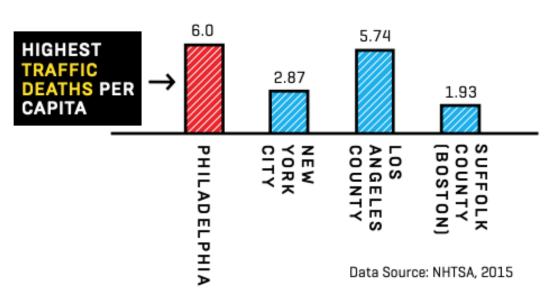


Through advocacy and education, we lead the movement to make bicycling a safe and fun way to get around for anyone in Greater Philadelphia.



RATE OF TRAFFIC-RELATED DEATHS (PER 100,000 RESIDENTS)

Traffic crashes have tragic impacts on the lives of Philadelphians.



 The Bicycle Coalition of Greater Philadelphia and AARP PA began talking about these listening sessions across Philadelphia neighborhoods in 2018.



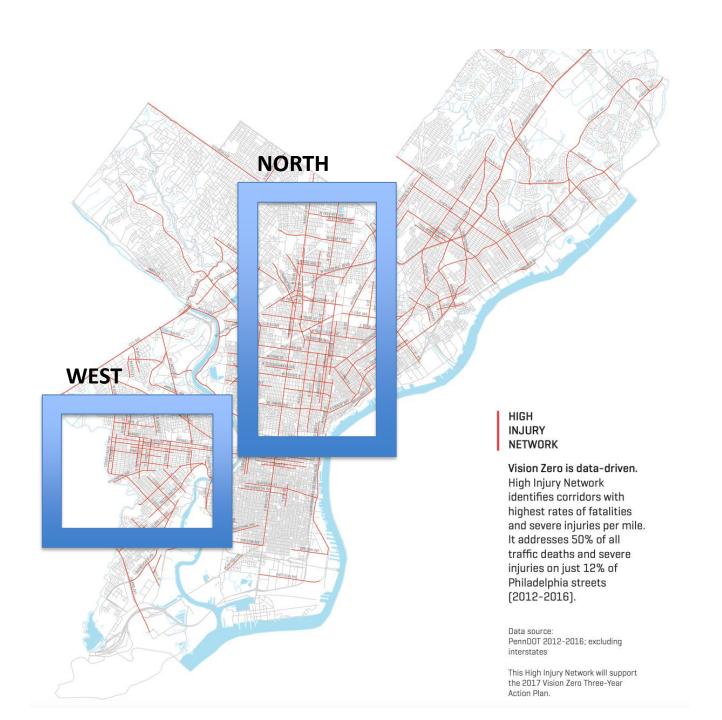
CHANGE THE CONVERSATION



By Listening









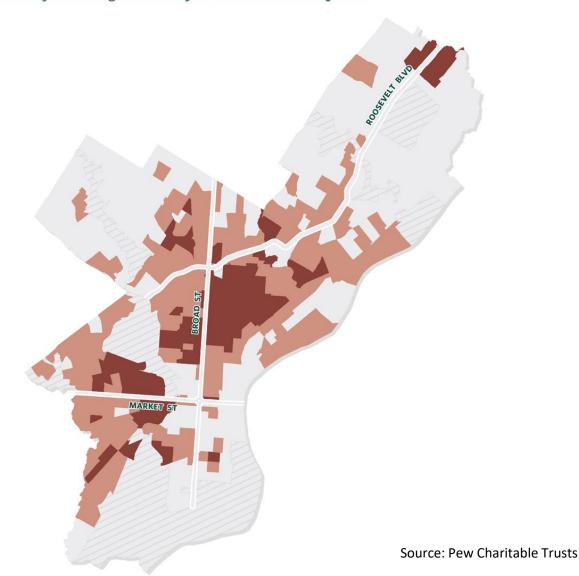
Our goals?



- Address traffic concerns
- Find out the worst problems
- Hear THEIR solutions
- What has the government done for them?
- Have these concerns been voiced before?

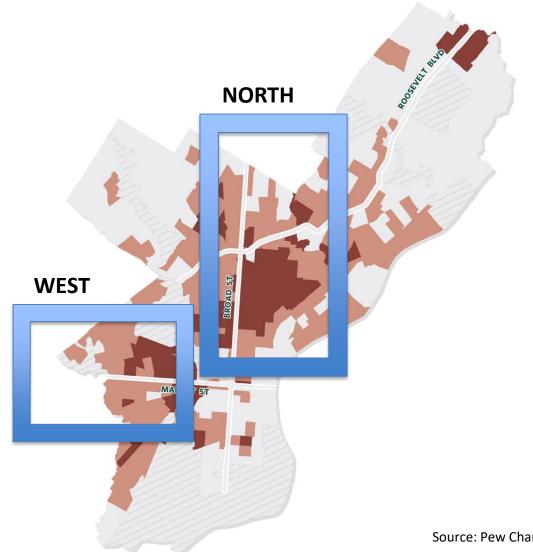
Why is this important?

Poverty and High-Poverty Areas in Philadelphia



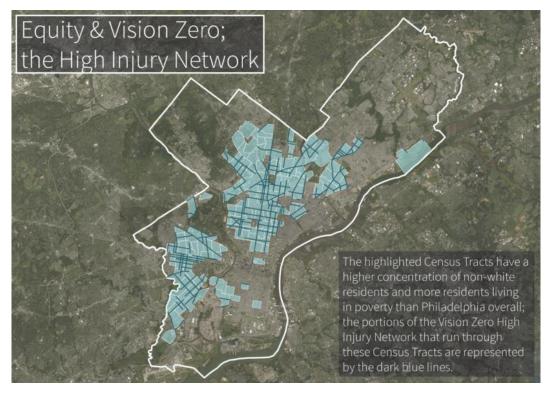
Why is this important?

Poverty and High-Poverty Areas in Philadelphia



Source: Pew Charitable Trusts

Why is this important?



- BCGP Analysis: roughly 35% of Philadelphia's street miles are located in these Census Tracts, 46% of the High Injury Network.
- Almost half (46%) of the High-Injury Network in Philadelphia lies in impoverished communities of color.



WHAT WE DID



1. Hired a Professional Facilitator



WHAT WE DID



What a fantastic night #fullhouse at the #PHLvisionzero community listening session. Making the community part of the conversation. @HACECDC @bikelanesphilly @bcgp @AARPPA @AARPLivable @PhillyOTIS #northphilly #safestreets. @MrRawle @billiwpa



10:06 PM - 10 Oct 2018

2. Partnered with local community organizations

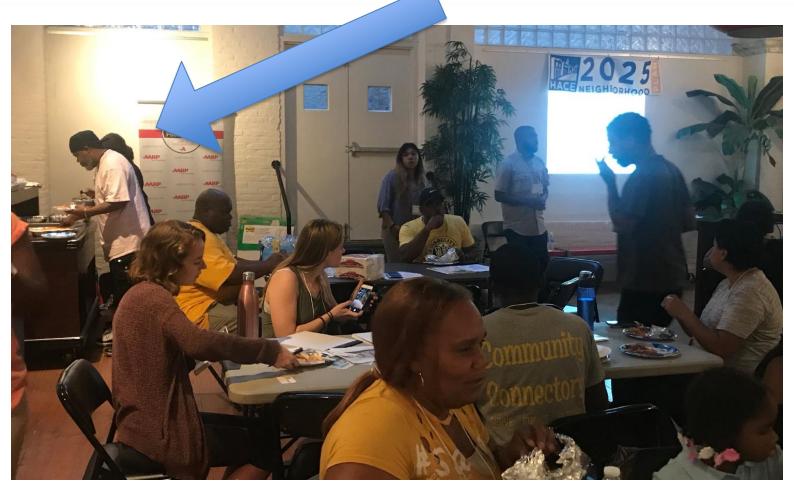












3. Provided FOOD



¿Es la seguridad vial un problema en Lehigh Ave?

Conversación sobre

Tráfico y Seguridad

¡Haz que tu voz se escuche!



¿Como harias Lehigh Avenue una calle más segura?



AARP ofrecerá cena

Lunes, 25 de Febrero 5:30-6:45 pm En la Biblioteca Lillian Marrero

601 W Lehigh Ave, Philadelphia, PA 19133









4. Provided a translation







5. Listened







6. Wrote up the Results



WHAT'S NEXT



7. Present Report to City Council Members who represent these districts. And invite constituents!

CHANGE THE CONVERSATION



By Changing the Speaker





1. Advocated for Red Light Cameras





2. Organized & Advocated for Automated Enforcement on Roosevelt Boulevard



What We Did



3. Organized Chapter of Families for Safe Streets



FEBRUARY 2019

SERVING JUSTICE IN FATAL CRASHES IN PHILADELPHIA

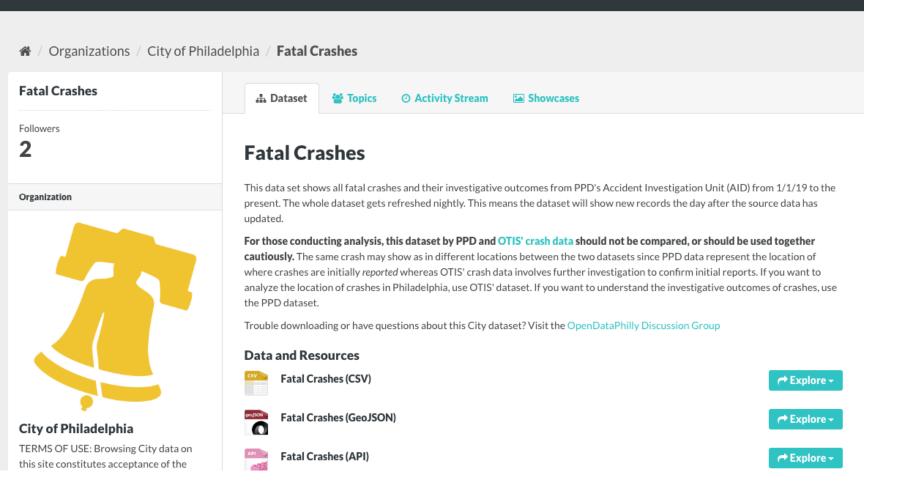
An Analysis by:

The Bicycle Coalition of Greater Philadelphia and Families for Safe Streets Greater Philadelphia



4. Recommended Solutions

Results: Real Time Data on Fatal Crashes & Investigative Outcomes





Results: New tools for Philadelphia Police Dept



Crash Data Retrieval System

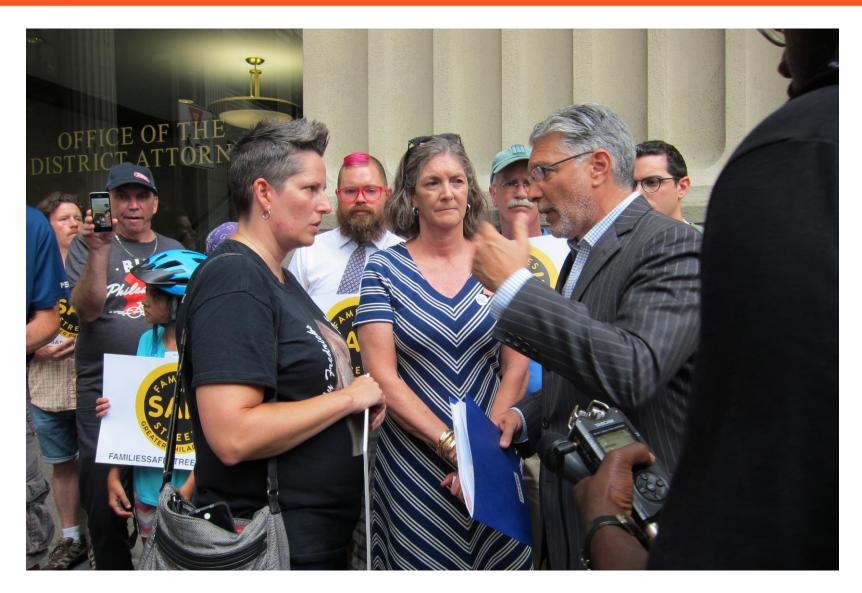
The Accident Investigation Division (AID) is responsible for investigating critical injury and fatal crashes. According to PennDOT, between 2013 and 2017 there were an average of 14,213 reportable vehicle crashes per year in Philadelphia, and AID investigated an average of 2,318 crashes in those four years, including an average of 96 fatal crashes per year.

The CDR is a combination of computer hardware and software that enables accident investigators to retrieve, download, and print information recorded in a vehicle's airbag and power train control module for activity which transpired during a crash. This key data is





Results: More Responsive District Attorney





What We Are Doing





bicyclecoalition.org

Sarah Clark Stuart sarah@bicyclecoalition.org







83% of all crashes on Roosevelt Boulevard were driver-to-driver crashes.

Pedestrian deaths and serious injuries make up **30%** of all severe crashes along Roosevelt Boulevard.

25% of all traffic crashes on Roosevelt Boulevard leading to death or serious injuries resulted from vehicle hitting a fixed object.

ROOSEVELT BOULEVARD

Creek Park







Developing a series of transformative improvements to create a more inviting corridor that is safe, accessible, and reliable for residents, visitors, employees, and commuters, including those who walk, wheel, transit, bicycle, and drive.

PROJECT PARTNERS









SAFE / Behavior, the interaction of modes, and unusual design characteristics of the Boulevard combine to put the traveling public at greater risk of harm.

ACCESSIBLE / The Boulevard separates local communities because it is difficult for every type of user to cross 12 lanes of traffic to access services, schools, employment, and attractions.

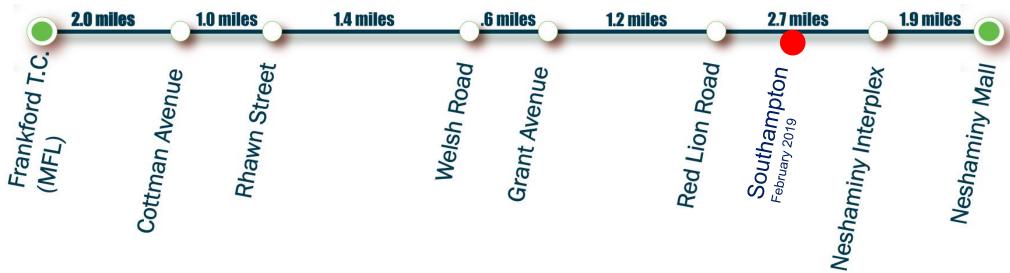
RELIABLE / People who walk, wheel, transit, bicycle, and drive experience unexpected delays, aging sidewalks, narrow medians, and limited bicycle facilities, making travel along the Boulevard unpredictable and frustrating.

TRANSFORMATIVE / As the defining piece of transportation infrastructure in NE Philadelphia, the Boulevard is not comfortable for every type of user and falls short of its potential to bolster the social and economic vibrancy of neighboring communities.



BOULEVARD DIRECT

Serving Roosevelt Boulevard, between Frankford Transportation Center and the Neshaminy Mall, this BRT-type service offers an efficient and reliable travel option, with greater service frequency and fewer stops.





Direct Bus Phase B (Concept)



INTERIM IMPROVEMENTS

Priority on Human Life (Safety)

Improve conditions on the Boulevard for <u>all</u> users

Developed using network traffic modeling







- 1. Improvements at key intersections
- 2. Expanded Direct Bus service
- 3. Bike Network connected to Blvd resources

Boulevard Character Analysis



Character Typology 1

Predominantly fronted by well-established residential neighborhoods.

Based on the Parkway design model, the hierarchy of the existing green spaces are in the wrong places.

The widest of the green spaces should be at the outer medians, which would be compatible with residential frontage and outer lanes that have slower local traffic.

Creating a place of respite in the center median is not recommended.

Character Typology 2

Much more variable in both its physical makeup and development that fronts the roadway, which is predominantly commercial and retail use.

Green space is primarily divided between two medians.

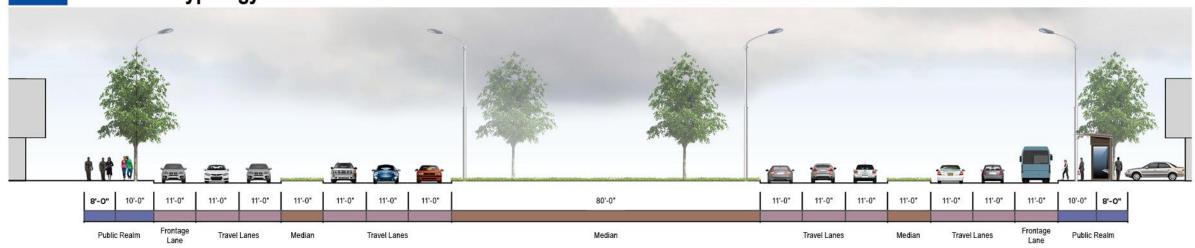
Median width consistency is impacted by increased turning movement lanes.

In many locations, medians narrow to only about 5-feet, which is at best an uncomfortable pedestrian refuge and at worst hazardous.

Boulevard Character Analysis

Landscape recommendations should seek to support the intent to slow vehicular speeds.





Character Typology 2



GUIDING VISION FOR ROOSEVELT BOULEVARD



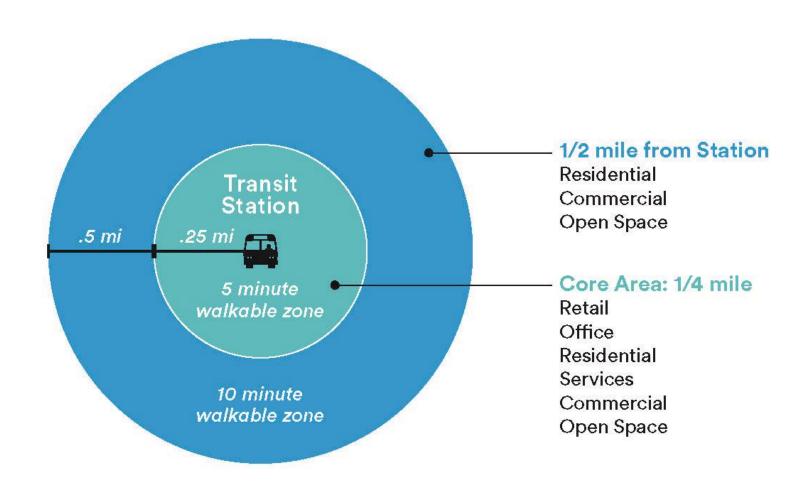
Roosevelt Boulevard is safe, accessible and reliable for all users. It is an attractive and vibrant corridor that unites adjacent communities and offers a diverse and connected network of transportation choices.



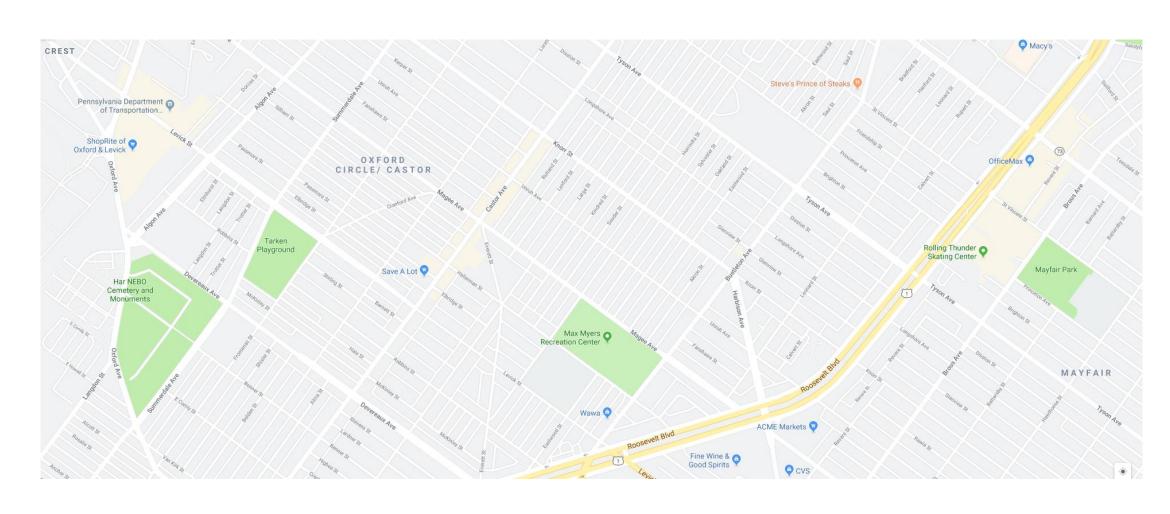
Dedicated Transit & Walkalble Transit Station Areas



LAND USE MIX



FINE GRAIN STREET NETWORKS



STATION AS A 'PLACE'



- Comfortable, Safe and Attractive
- Protected from Weather
- Well Lit
- Linked to Walking and Biking Network

WALKABLE STATION AREA TYPES

- Mixed Use Transit Center
- Medium Density Center
- Neighborhood



TWO ALTERNATIVES

PARTIALLY CAPPED EXPRESSWAY

NEIGHBORHOOD BOULEVARD

Vision Zero:

Choose your Own Adventure

KELLEY - Starting up a Vision Zero program

SARAH - Engaging communities in Vision Zero discussions

ANGIE - Planning Vision Zero safety improvements