## VISION ZERØ

CITY OF PHILADELPHIA



# What IS Vision Zero?



#### 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.



#### Where has Vision Zero been adopted?

First adopted as a national policy in Sweden in 1997, over 25 cities across the U.S. have since adopted Vision Zero.

#### **U.S. CITIES WITH VISION ZERO POLICIES:**

- Chicago;
- Boston;
- New York City;
- Los Angeles;
- San Francisco;
- Seattle, and more



#### Why Vision Zero in Philadelphia?

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

#### **5-YEAR TREND:**

- 2012: 95 killed / 250 severely injured
- 2013: 80 killed / 225 severely injured
- 2014: 82 killed / 223 severely injured
- 2015: 83 killed / 250 severely injured
- 2016: 96 killed / 252 severely injured

#### 100 PEOPLE EVERY YEAR



100 people are killed in traffic related crashes.



#### Why Vision Zero in Philadelphia?

Every year, there are over 10,000 reported crashes in Philadelphia.

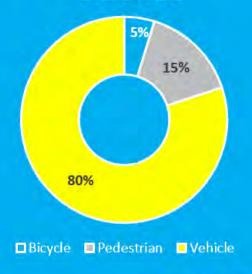
#### **4 CHILDREN EVERY DAY**



4 children every day are reported to be involved in traffic crashes.

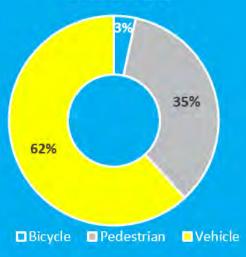


## People involved in crashes



Data source: PennDOT

## People killed in crashes



Data source: PennDOT



#### **Traffic-related Deaths:**

Total deaths vs. rate of death per 100,000 residents

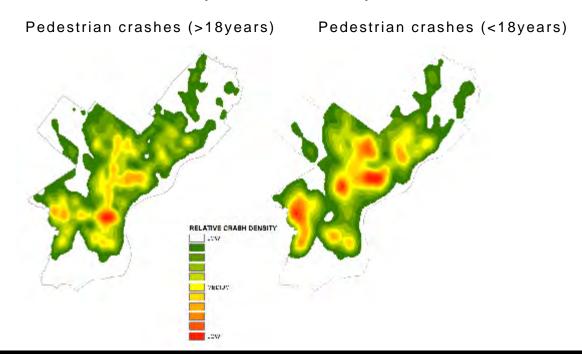


Data source: NHTSA, 2015



#### Why Vision Zero in Philadelphia?

Traffic crashes do not impact Philadelphians the same.





# OUR CITY AND OUR FAMILIES DESERVE SAFER STREETS.

Zero traffic deaths by 2030.



#### Vision Zero principles to priorities

**EQUITY** Identify equitable solutions developed on behalf of all Philadelphians

**ENGINEERING** Engineer streets to reduce the risk of crashes

**ENFORCEMENT** Enforce laws to reduce and prevent unsafe roadway behaviors

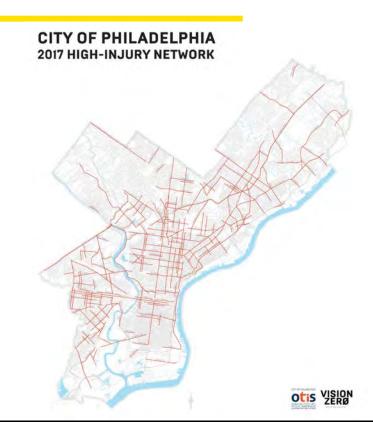
**EDUCATION** Educate Philadelphians to promote a culture of safe driving, walking, and biking

**EVALUATION** Evaluate efforts to ensure resources are being used effectively



#### **High Injury Network**

→ 50% of Killed/Serious
Injury Crashes on 12% of
Streets



#### JFK & Market Corridor Safety Project





# Project background



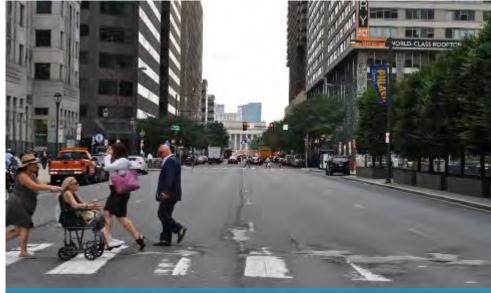
## Where is the project area?

- High-rise commercial Center City Corridors
- Buses: 2, 17, 31, 32, 33, 38, 44, 48 (Market only), 62, 124, 125, 414, 417, 555
- Four large residential buildings front the streets
- Over 6 preschools and daycares serve the corridors
- Main east-west streets in Center City









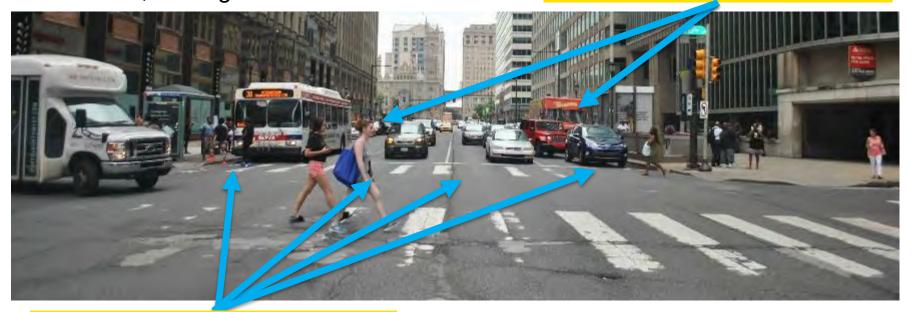
JFK Blvd., looking west



## John F. Kennedy Blvd.

JFK Blvd., looking east

2 narrow parking/loading lanes



4 extra large motor vehicle lanes

#### **V**2

#### **Market Street**

Market St looking east

2 parking/loading/turn lanes



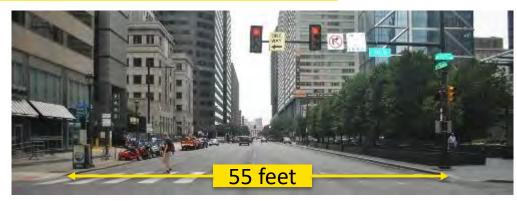
4 standard motor vehicle lanes



## What are the safety issues?

Long pedestrian crossings

Ideal maximum pedestrian crossing distance = 33 feet or 3 lanes without median



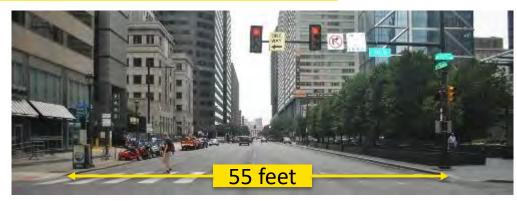




## What are the safety issues?

Long pedestrian crossings

Ideal maximum pedestrian crossing distance = 33 feet or 3 lanes without median







## What are the safety issues?

#### Weaving and speeding motor vehicles

#### 154 PEOPLE INJURED **CRASHES ON JFK AND MARKET** There were 140 crashes on JFK and Market combined between 15th & 20th streets from 2012 to 2016. Data for 2017 is not yet available, but there was at least 1 pedestrian In traffic-related crashes on death on JFK last year. JFK and Market from 2012 to 2016.



"Police said a woman was driving the van west on JFK Boulevard, and tried to switch from a middle lane to the right-hand lane at the intersection with 16th Street, but instead struck the back of a silver Hyundai Santa Fe sport utility vehicle traveling in the right lane."



#### Past studies

Full project Protected bike lane, landscaped median, signal work, restripe full roadway

\$18 million



Intermediate

Signal work, protected bike lane, flex posts, restripe full roadway

\$1.5 million



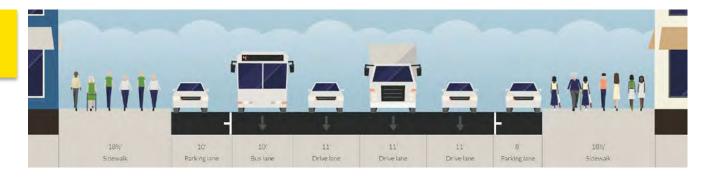


# Pilot project proposal



## **Market Street pilot**

Existing Market
St. cross section



Pilot Market St. cross section



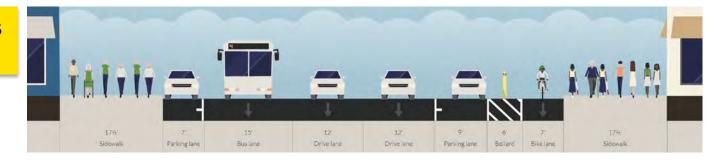


## JFK Blvd. pilot

Existing JFK cross section

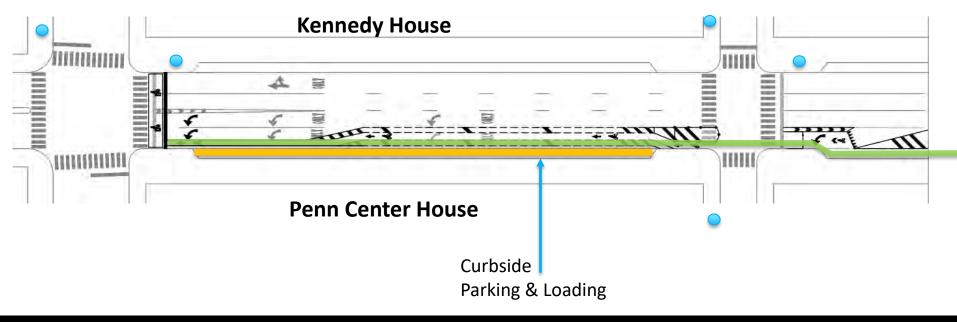


Pilot JFK cross section



#### 1900 Block JFK







## How will it impact traffic?

- Redesign will have negligible impact on traffic flow
- Left turning lanes will help traffic flow
- Due to construction, LOVE Park, Sterling House and 1500 Market have been 3 lanes





## **How will it impact SEPTA?**

Buses: 17,
 33, 38, 44,
 124, 125





## Safety benefits

- Improves safety for all users of the roadway
- Decreases sidewalk cycling
- Supports a healthy and active Philadelphia
- Makes bicycling more accessible
- Improves businesses along the corridor





## Pilot project timeline

#### Fall/Winter 2017/2018

- Meet with stakeholders seeking support for demonstration
- Finalize plans and secure funding
- Collect baseline data

#### Spring 2018

- Install 9 month pilot
- Collect data at two points during pilot to measure impact
- Check in with stakeholders and public

#### Late Fall 2018

- Review results of data collection and stakeholder feedback with Council President and public
- Determine next steps



#### Measures of success

| Goal            | Performance<br>Measure               | Unit(s) of Measurement  |
|-----------------|--------------------------------------|---|
| Safety          | Collision Rate                       | Severity and Number of Crashes,<br>Number of Injuries, Crash Rate                         |
|                 | Speeding                             | Peak and Average Speeds   |
| Mobility        | Vehicle Volume                       | Number  |
|                 | Vehicle Travel Time                  | Time from 15 - 20th Streets   |
|                 | Vehicle Median Speeds                | Number  |
|                 | Bicycle Volume                       | Number in 2 locations along each street   |
|                 | Pedestrian Volume                    | Number in 2 locations along each street   |
|                 | Bus Speeds                           | Speed along 1 location along each street  |
| Quality of Life | Employees/Businesses<br>Satisfaction | Percentage  |
|                 | Roadway User Satisfaction            | Percentage  |
|                 | Testimonials                         | Comfort Level   |
|                 | Use of Public Spaces                 | Usage # of pedestrian refuge areas along roadway, Usage # of public spaces along corridor |



#### **Focused Enforcement Plan**

#### Partnership with Police District #9

#### 1. Behavior for Motor Vehicles

- Red light running
- Turning vehicles failure to yield to pedestrians
- Motor vehicle and truck double parking
- Mixing/Conflict zone yield behavior

#### 2. Behavior for Bicycles

- Conflict zone yield behavior
- Red light running
- Sidewalk and wrong way bicycling



## Meetings to date

| Entity                               | Date(s)  | Result  |
|--------------------------------------|--|---------|
| Kennedy House                        | 8/14/17, 10/10/17, 12/12/18<br>(Board), 12/12/18 (Council) | Neutral |
| Penn Center House                    | 7/19/17, 10/24/17  | Support |
| Logan Square Civic<br>Association    | 1/9/18   | Support |
| 9 <sup>th</sup> Police District      | 1/11/18  | Support |
| One Penn Center                      | 12/12/17   | Support |
| 1601 Market                          | 2/7/18   | Support |
| 1801 Market                          | 2/6/18   | Support |
| Two Penn Center                      | 2/12/18  | Support |
| Center City Residents<br>Association | 2/13/18  | Support |



## **Next Steps**

- 1. Finalize Enforcement, Engagement, and Data Evaluation Plans
  - Final Plans Late March
- 2. Finalize Parking & Loading Plan with PPA and Building/Tenant Input
  - Final Plan Late March
- Finalize Installation Schedule
  - Target April



# Thank you

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