

City of Pittsburgh

East Liberty (EL) Corridor Level Safety & Mobility Improvement Plan

Action Team Meeting-1

Ongoing Project Updates for the East Liberty (EL) Community

1. Traffic Signal Replacement

- Highland & Penn- Design year 2022 .Construction 2023.
- Stanton & Negley- Pavement marking complete. Signal replacement will be completed by May. Will get 4 LED Streetlights.

2. Penn Circle Two-way conversion- Construction will begin on June,2022.

3. Stanton Ave Safety improvement

- Between McCandless and Meadow.
- Project planning and design scoping completed.
- Due to the length of this corridor, planned improvements are to be constructed in two phases.
 - ❑ Phase 1, the Stanton Heights section between McCandless and Chislett is slated for 2022 construction.
 - ❑ Phase 2, the East Liberty/Highland Park section between Chislett and Meadow is programmed for 2023.

As the project progresses, please check the Neighborhood Traffic Calming Engage page for up-to-date information on the project. <https://engage.pittsburghpa.gov/neighborhood-traffic-calming>

Demographic Information & General Neighborhood Trip Characteristics

Total Population of the Neighborhood: 5,741 (2020).

2% decrease than from 2010 Population

Per 100 residents
Male: Female= 47:53

Median Age - 36.

Age Group
Under 18-11%
Over 65 - 16%.



Households with Zero Vehicle
EL-38% , City-23%, County-13%

Work commute mode of transportation	Percentage
Car, truck, or van -- drove alone	50%
Public transportation	29%
Walked	9%
Car, truck, or van -- carpooled	5%
Worked from home	3%
Other means	2%

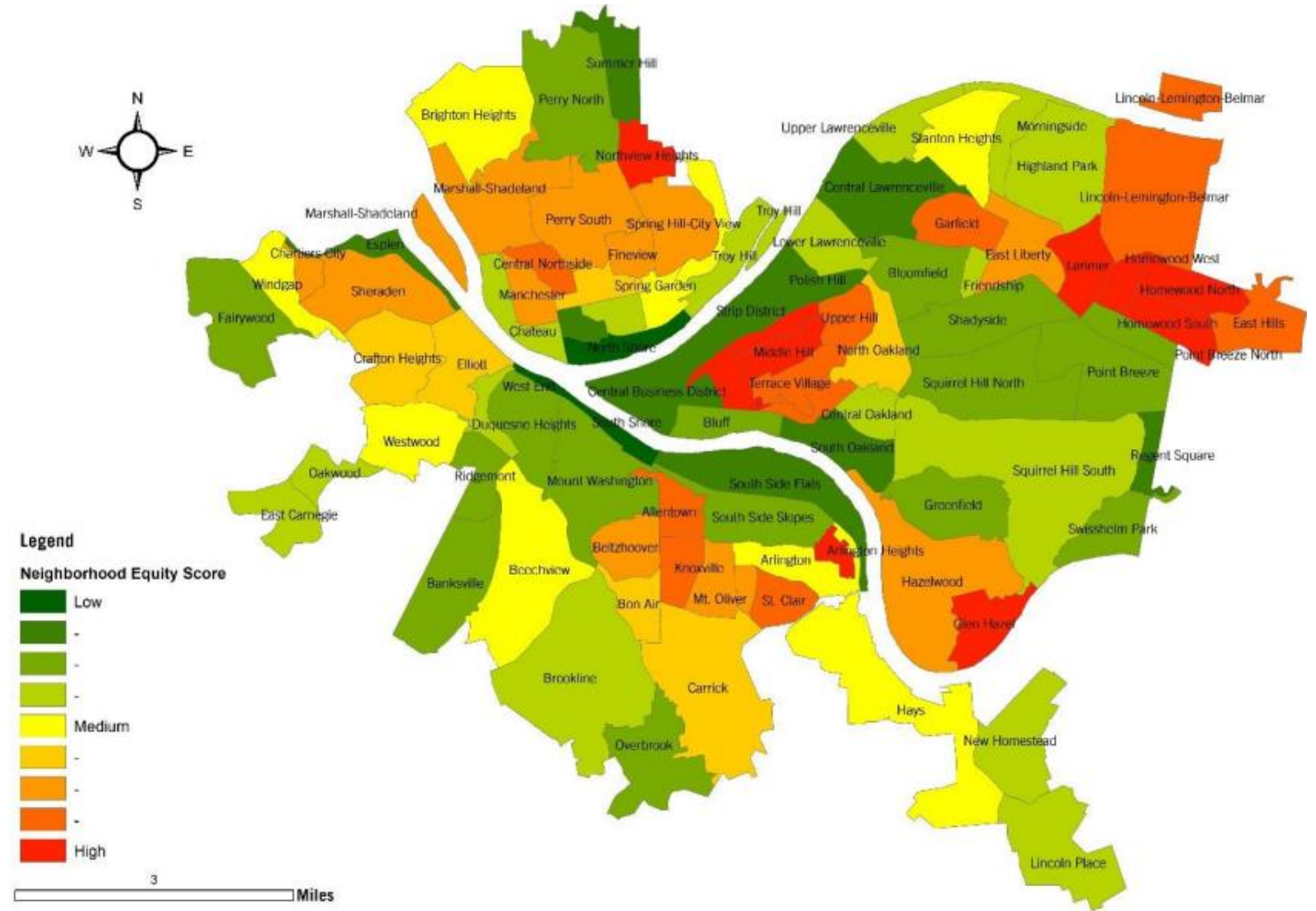
Race	Percentage of total population
White Alone	43%
Black or African American alone	41%
Asian alone	9%
Two or more races	6%
Hispanic and other race	1%

Location	Daily Trips Under 2 Mile (%)	Daily Trips Under 3 Mile (%)
City Average	32%	45%
East Liberty	36%	50%

Adopted from Port Authority of Allegheny County
Document-EQUITY INDEX OF MOBILITY NEED

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1. **People with Disabilities**.....
2. **People in Poverty**
3. **Minority Race and Ethnicity Persons**.....
4. **Households without Vehicles**
5. **Older Adults**.....
6. **Persons under Age 18**.....
7. **Persons with Limited English Proficiency**
8. **Female Householders**.....



Pre-Scoping Survey Summary

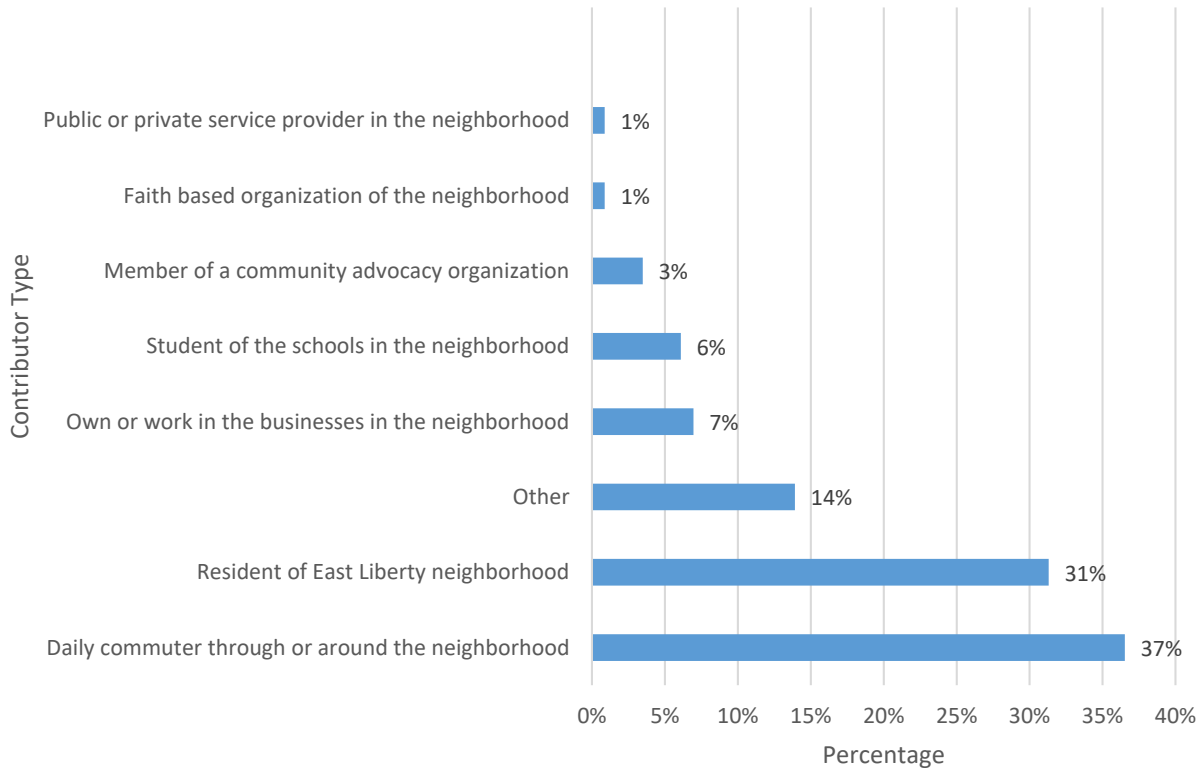
Timeline- March 1st to April 2nd , 2022
Total Respondents-115.
Platform-EngagePGH



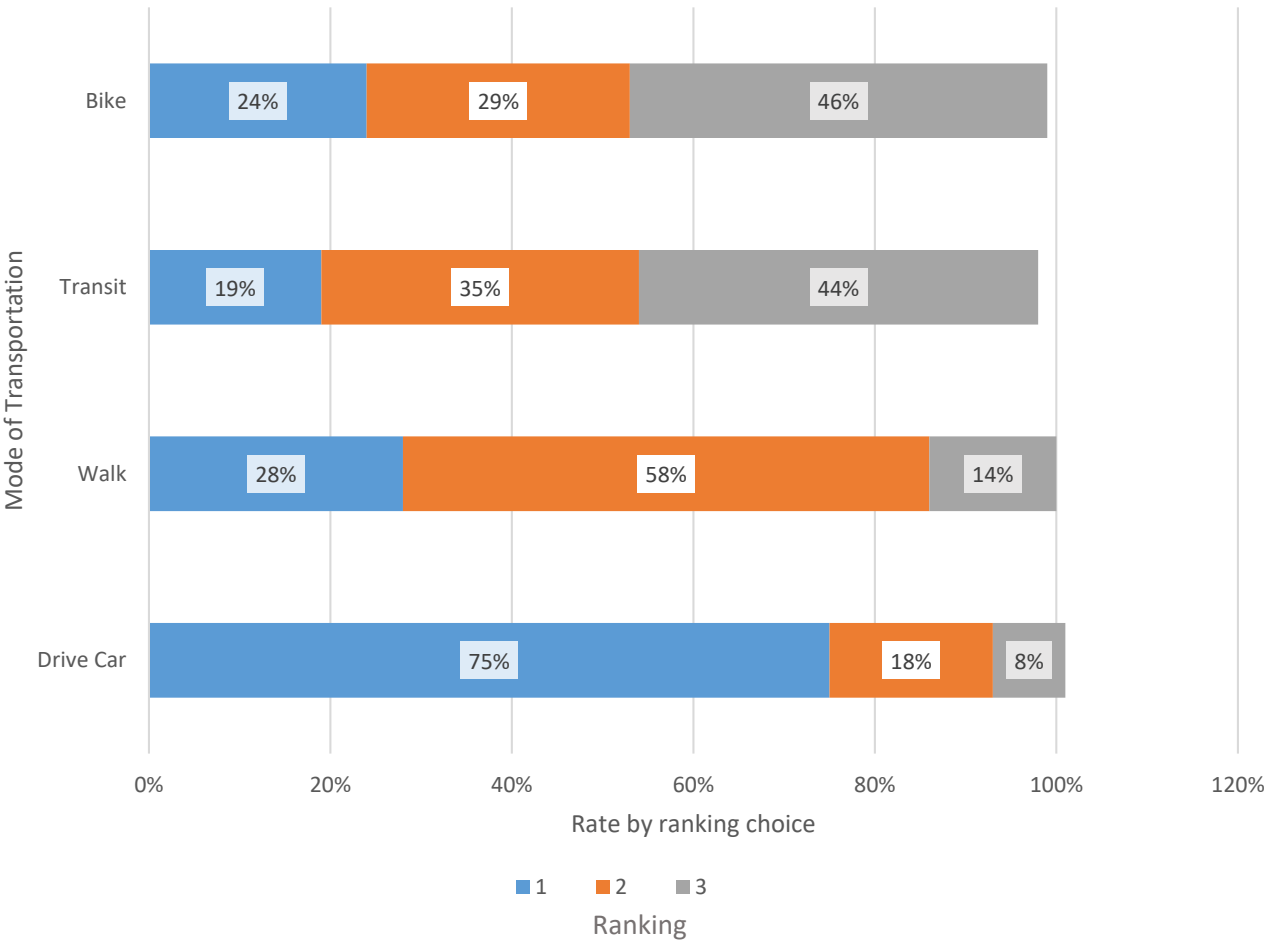
2. What are your top three (3) modes of transportation for work and non-work commute?

1. You are a

Contributors of the survey



Top three (3) Mode Choice









3. What are the main transportation and mobility issues this plan should focus?

Most Preferred

- Pedestrian Safety (90%).
- Traffic operations and calming (76%).
- Transit operations-existing stop locations improvement (53%)

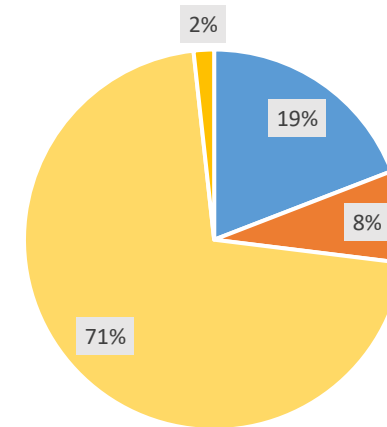
5. What is your mobility vision for the East Liberty neighborhood?

- 1. pedestrian**
43 times Relevance **0.263**

- 2. traffic**
38 times Relevance **0.066**

- 3. east liberty**
36 times Relevance **0.548**

- 4. highway**
36 times Relevance **0.276**

- 5. car**
32 times Relevance **0.124**

- 6. penn**
29 times Relevance **0.215**


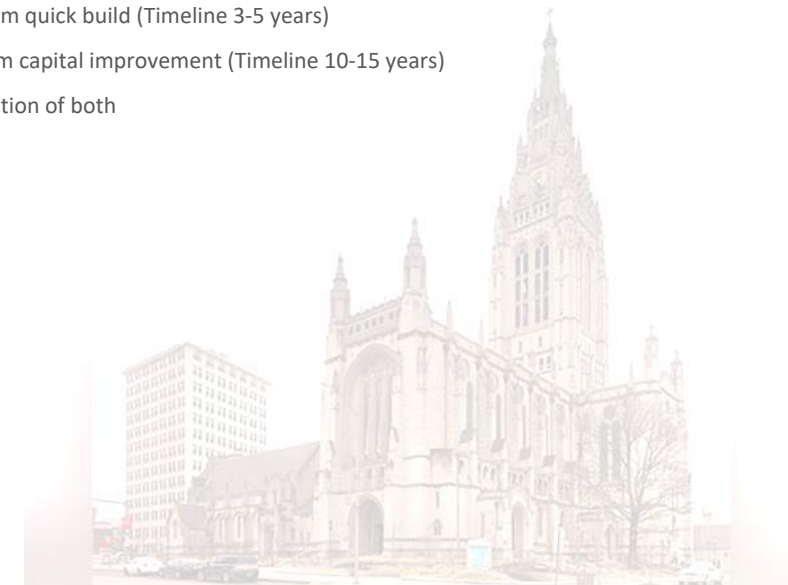


4. What type of projects should be prioritized and focused on this plan?

Priority Project Timeline



- Short term quick build (Timeline 3-5 years)
- Long term capital improvement (Timeline 10-15 years)
- Combination of both
- Other



Active Mobility Networks

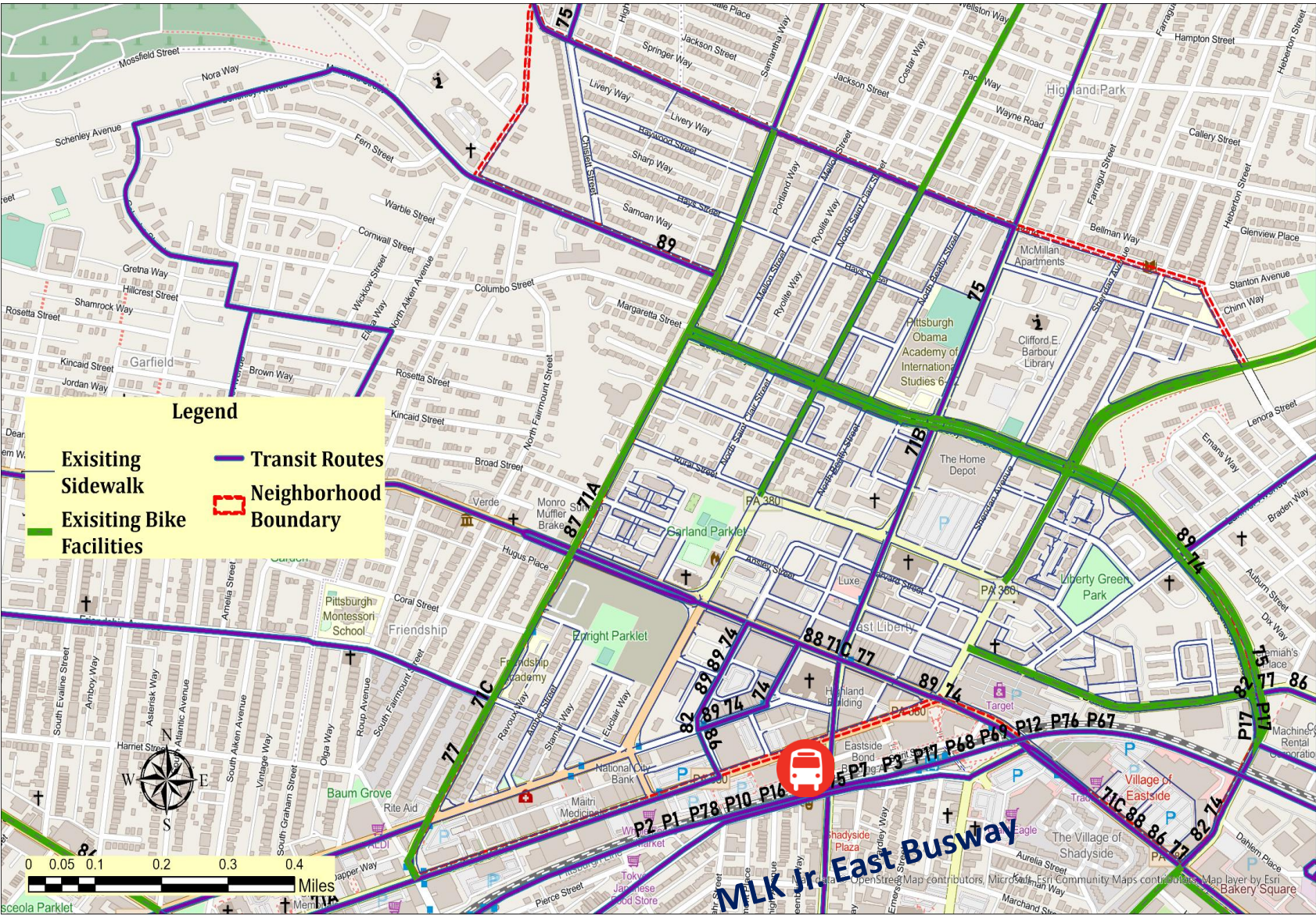
Existing Sidewalk Facilities

- Approx. mileage-26.8 Mile.
- Presence on the major corridors- yes.
- Any significant sidewalk gap- No.
- Width range- 6-20 ft.

Existing Bike Facilities

Existing Facility Name	Facility Type	Length	Estimated traffic (STRAVA Metro)*
N. Negley Ave	Buffered & bike lane in parts	1.08 Mile	1530 trips
East Liberty Blvd	Bike lane	1.83 Mile	1200 trips
Broad St.	Buffered bike lane	.34 Mile	110 trips
Euclid Ave	Neighbor way	1.2 Mile	225 trips
Negley Run Blvd	Cycle track	.90 Mile	500 trips

*Strava user data only. Timeline-July 2021 (Full month)

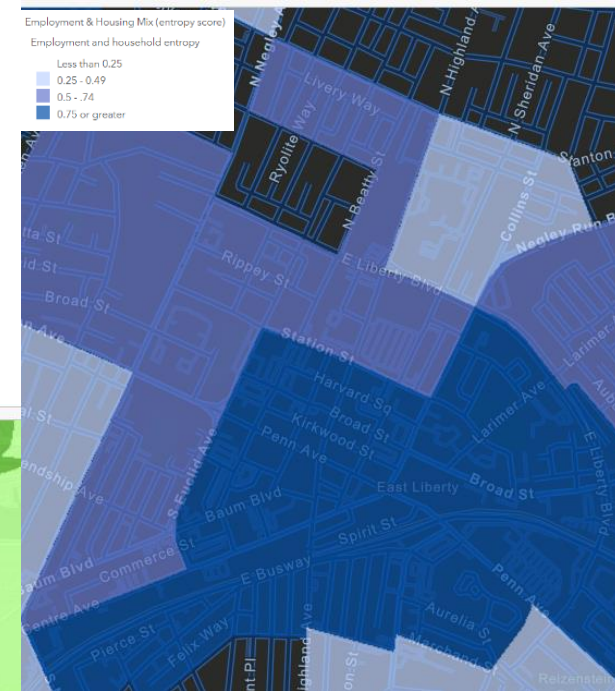


Source-<https://www.epa.gov/smartgrowth/national-walkability-index-user-guide-and-methodology>

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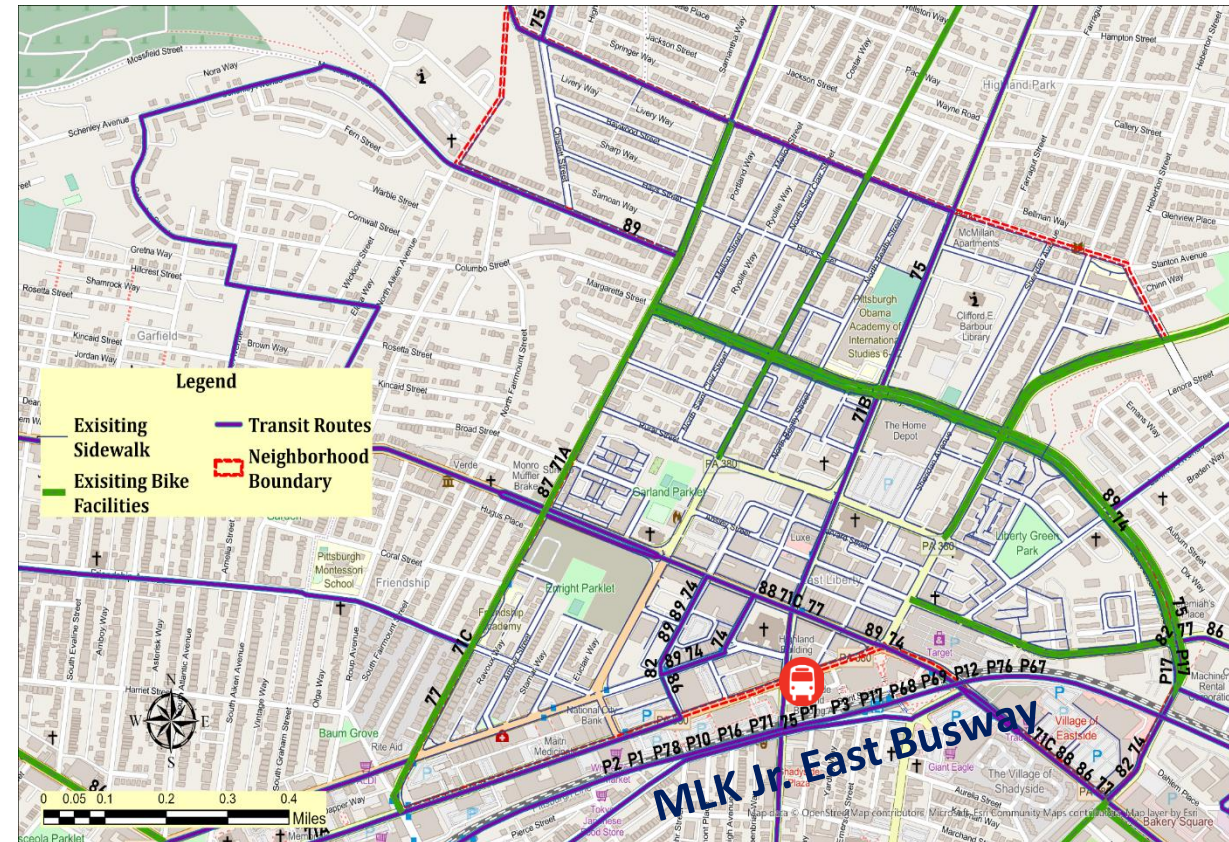
- Intersection density per acre
- Proximity to transit stops
- Employment mix
- Employment & Housing mix

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Transit Routes

ROUTE	Route Name	Hi-Frequency	OTP % (CY21) (Goal=73)
P2	East Busway Short		88
P3	East Busway - Oakland	Y	88
P1	East Busway - All Stops	Y	87
89	Garfield Commons		80
P76	Lincoln Highway Flyer		77
P17	Lincoln Park Flyer		74
P7	McKeesport Flyer		74
P71	Swissvale Flyer		74
P12	Holiday Park Flyer		73
P67	Monroeville Flyer		72
64	Lawrenceville - Waterfront	Y	71
71A	Negley	Y	71
P68	Braddock Hills Flyer		70
P69	Trafford Flyer		70
74	Homewood - Squirrel Hill		69
88	Penn		69
71B	Highland Park		69
75	Ellsworth	Y	68
P10	Allegheny Valley Flyer		68
P16	Penn Hills Flyer		68
82	Lincoln		67
87	Friendship	Y	67
86	Liberty		66
71C	Point Breeze	Y	63
77	Penn Hills		60



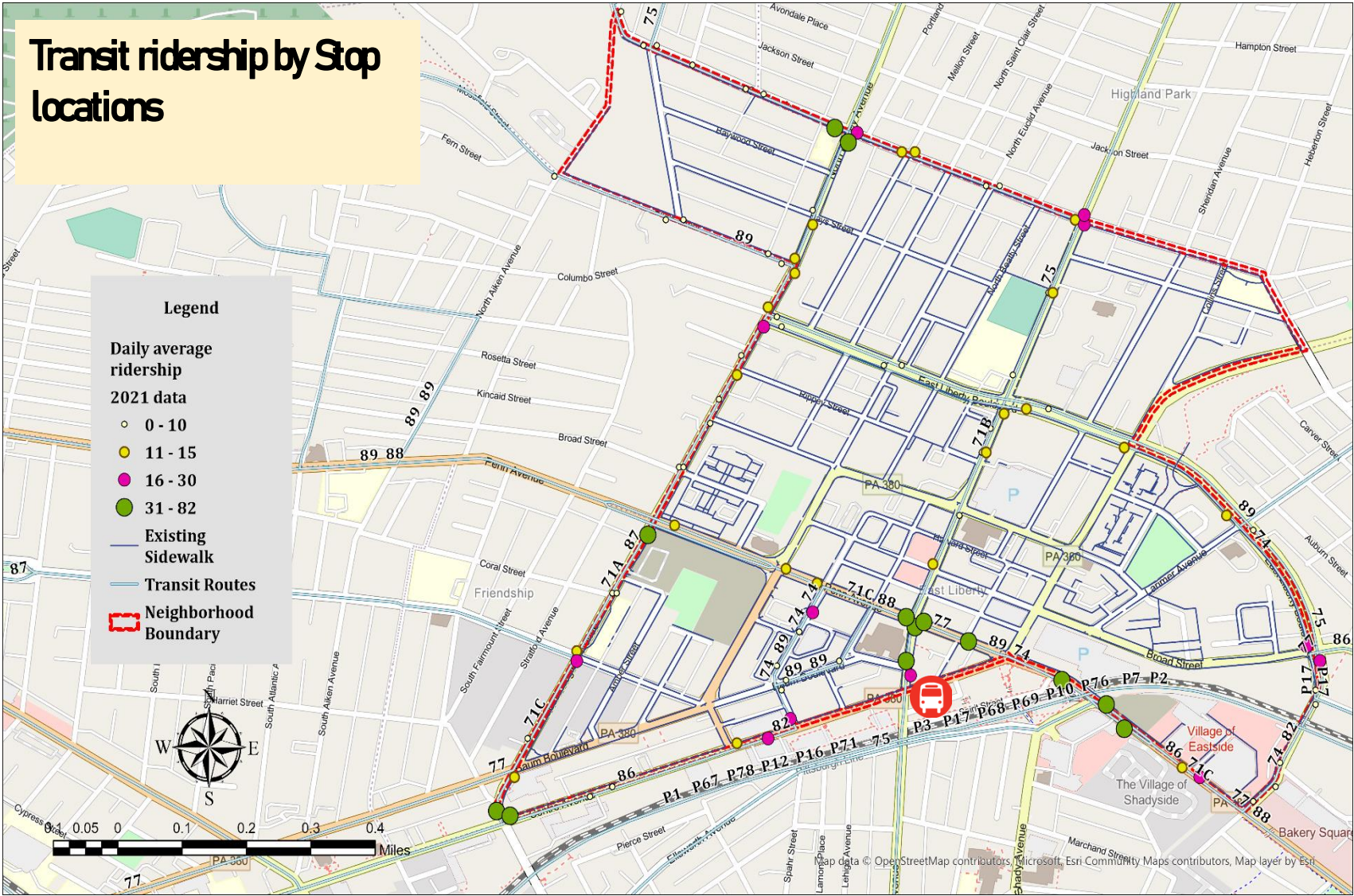
Transit Usage-East Liberty*

- Weekday average daily riders- over 2,764 (2021).
- 2019 Weekday average daily-over 9,800.
- Whole neighborhood is within ¼ mile walking distance from the transit corridors.

Location	Average Boarding & Unboarding (2021)
PENN AVE AT HIGHLAND AVE (highest ramp deployment)	442
PENN AVE AT EASTSIDE III DR (2 nd highest ramp deployment)	187
PENN AVE AT SHADY AVE FS (GIANT EAGLE)	184
PENN AVE AT SHERIDAN	153
NEGLEY AVE OPP SHADY AVE	139

Top 3 transit corridors

- Penn Ave
- N. Negley Ave
- Centre Ave



*Data source-WPRDC-PAAC

Link- <https://data.wprdc.org/dataset/port-authority-transit-stop-usage/resource/3f40b94b-4ac4-48f1-8c61-8439d2d2f420>

Bus Stop Locations

Total Bus Stops in the Neighborhood=88 (2021)

DAILY BOARDINGS

Stop Type	Boardings
Basic	< 10
Bench	10-30
Shelter	> 30

Average Daily Ridership (2021)	Number of Stops
Less than 10	27
10-30	43
More than 30 ridership	18

AMENITY MATRIX

	Sign	Pad	Sidewalk	Bench	Trash	Shelter	Light	Bike Rack	Route Info	System Info	Ticket Vending	Real-Time Sign
BASIC												
BENCH						✓	✓	✓	✓	✓		
SHELTER								✓	✓	✓	✓	✓

 - Basic Requirement
 ✓ - Recommended Amenity

Source-PAAC Bus Stop & Street Design Guidelines

Bus Shelter

- City owned and maintained-9.
- Port Authority owned and maintained- 4.

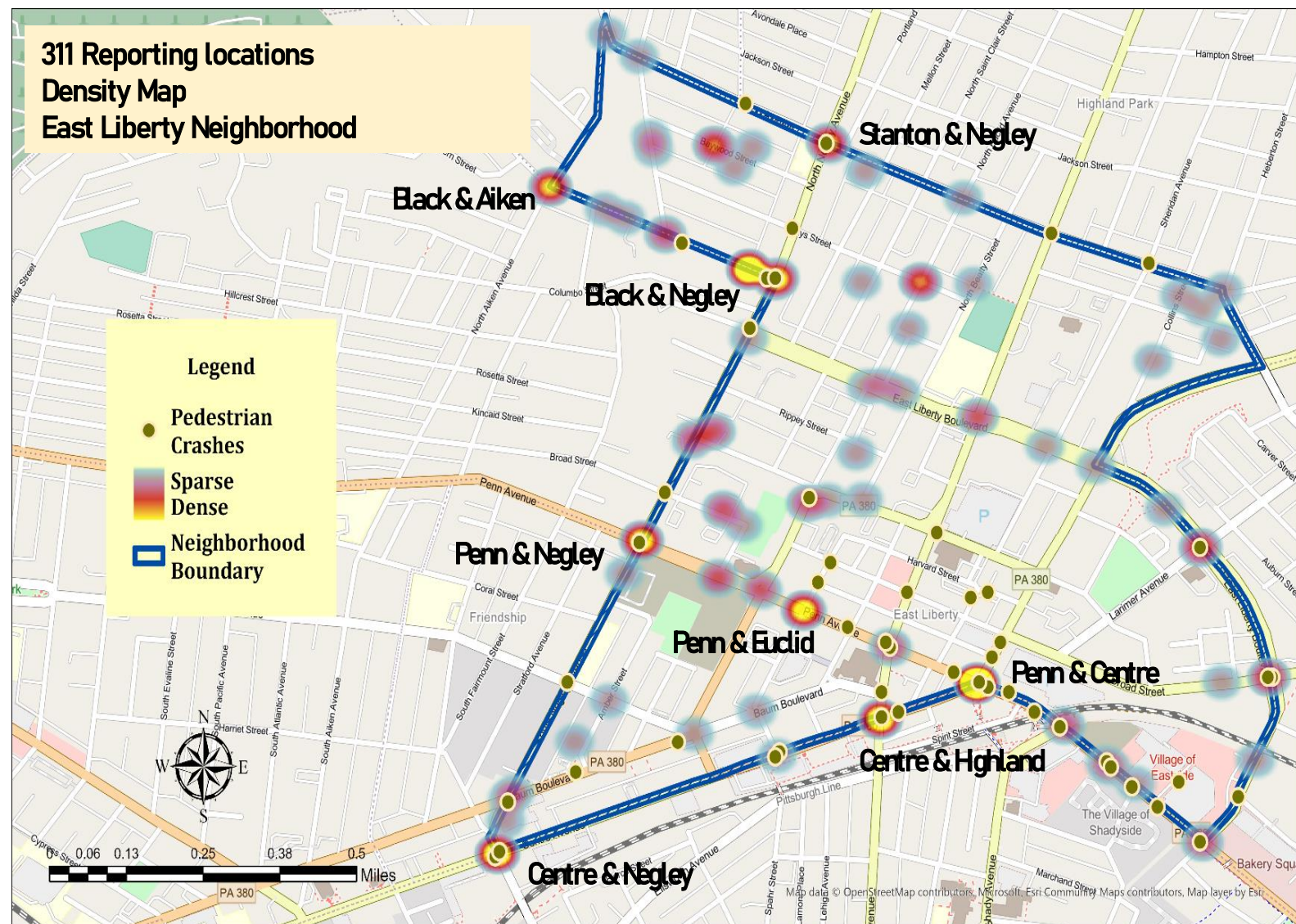


Data Timeline-2019 to 2021

311 Category	Closed	In Progress or Open	Grand Total
Traffic or Pedestrian Signal, Request	42	7	49
Traffic Calming	29	9	38
Bicycle/Pedestrian Concerns	23	3	26
Traffic Improvement	8		8
Pedestrian Signal Request	7		7
Crashes and Close Calls	2		2
Grand Total	111	19	130

Top 3 requested corridors

- Penn Ave-20
- Centre Ave-14
- Black St.-14



Traffic Crash Data Overview



Total Reported Crash

625



Reported Fatal Crash

Per year Avg.

125

Total Reported Injury Crash

17

Total Reported Pedestrian Crash

68



Reported Pedestrian Crash per 1000 residents

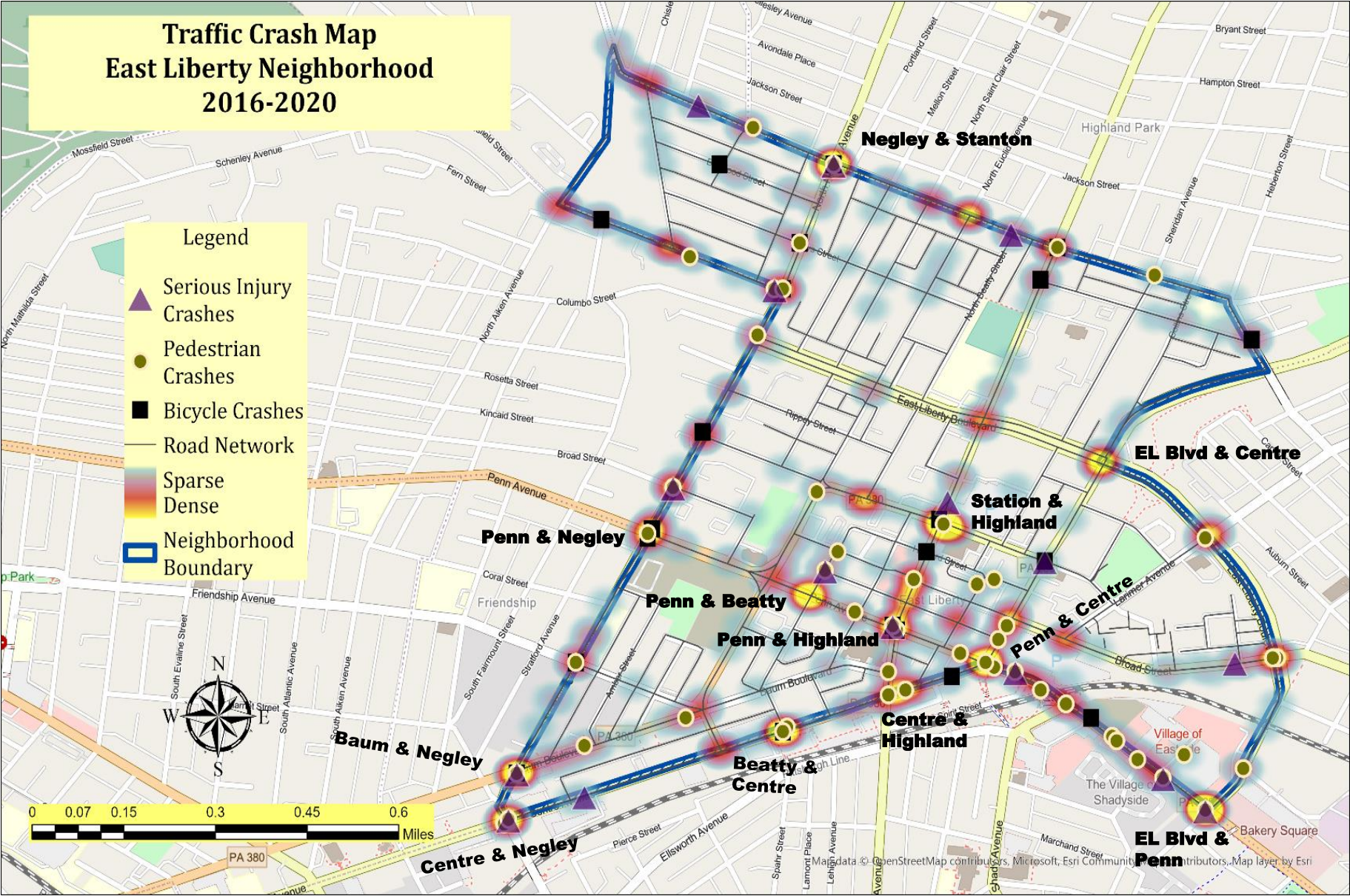
12(EL)>4(City)

Reported Bicycle Crash

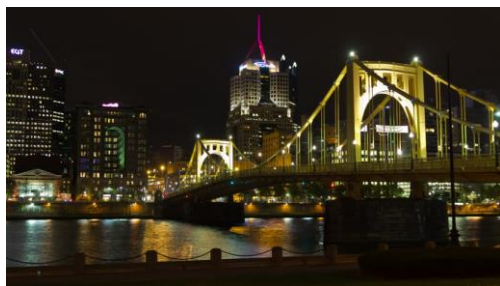
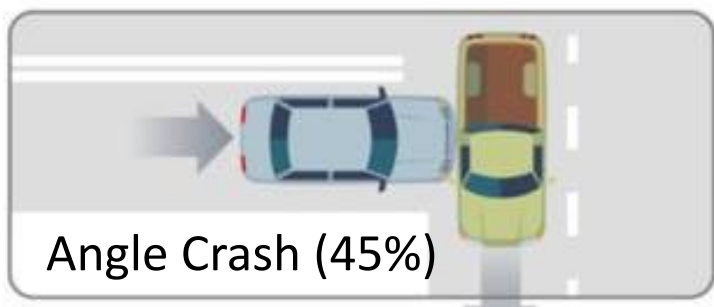
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Data Timeline-2016-2020
Source- Pennsylvania Crash Information Tool



Major Crash Type, location & Time



Intersection related Crash

76%

Top (4) Intersections	Estimated total reported crash
East liberty blvd & penn ave	24
Negley ave & stanton ave	18
Centre ave & penn ave	16
Beatty Sq & centre ave	16



Tale of 5 Corridors

- 77% of the total Crashes.
- 93% of the pedestrian crashes.
- 86% of bicycle crashes.
- 82% of total serious injury crashes.

Corridor name	Estimated daily traffic*	85 th Percentile Speed*
Penn Ave	12,022	25 MPH
Centre Ave	11,078	24 MPH
Negley Ave	12000	30 MPH
Highland Ave	6,633	23 MPH
East liberty Blvd.	10,589	31 MPH

*Data Source- SPC, PennDOT Tite,
 Timeline- 2016-2019.
 Highest volume along the corridor presented.
 Crash data- PCT, PennDOT 2016-2020
 Speed estimates- Streetlight Metrics,2019

Corridors	Total Crashes	Pedestrian	Bike	Serious Injury
Penn Ave	146	21	3	4
N. Negley Ave	112	20	9	6
Centre Ave	101	14	3	3
Highland Ave	71	4	5	1
East Liberty Blvd	54	4	0	0



Proposed Project Overview

Goal- Develop a data- and community-driven concept design plans (AKA 30% Concept design) for the priority corridors of the East Liberty Neighborhood.

Focus areas- **walk ,traffic safety** and **improved transit stop locations accessibility.**

Priority Corridors

- Penn Ave
(From East liberty Blvd to N Negley Ave)
- N Negley Ave
(From Centre Ave to Hays St.)
- Centre Ave
(From N Negley Ave to East Liberty Blvd)
- Highland Ave
(From Centre Ave to St. Marie)
- East Liberty Blvd
(From N. Negley Ave to Penn Ave)



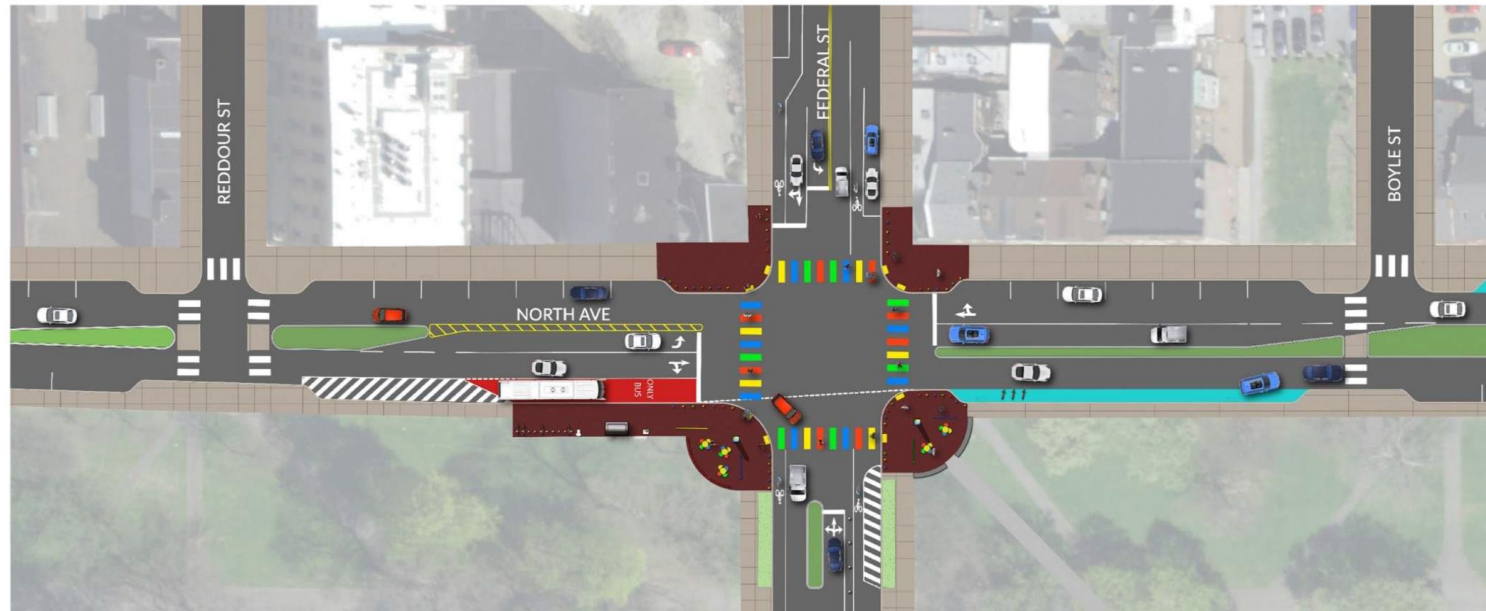
Example of Concept Plan

City of Pittsburgh

North Avenue Signals and Safety Project

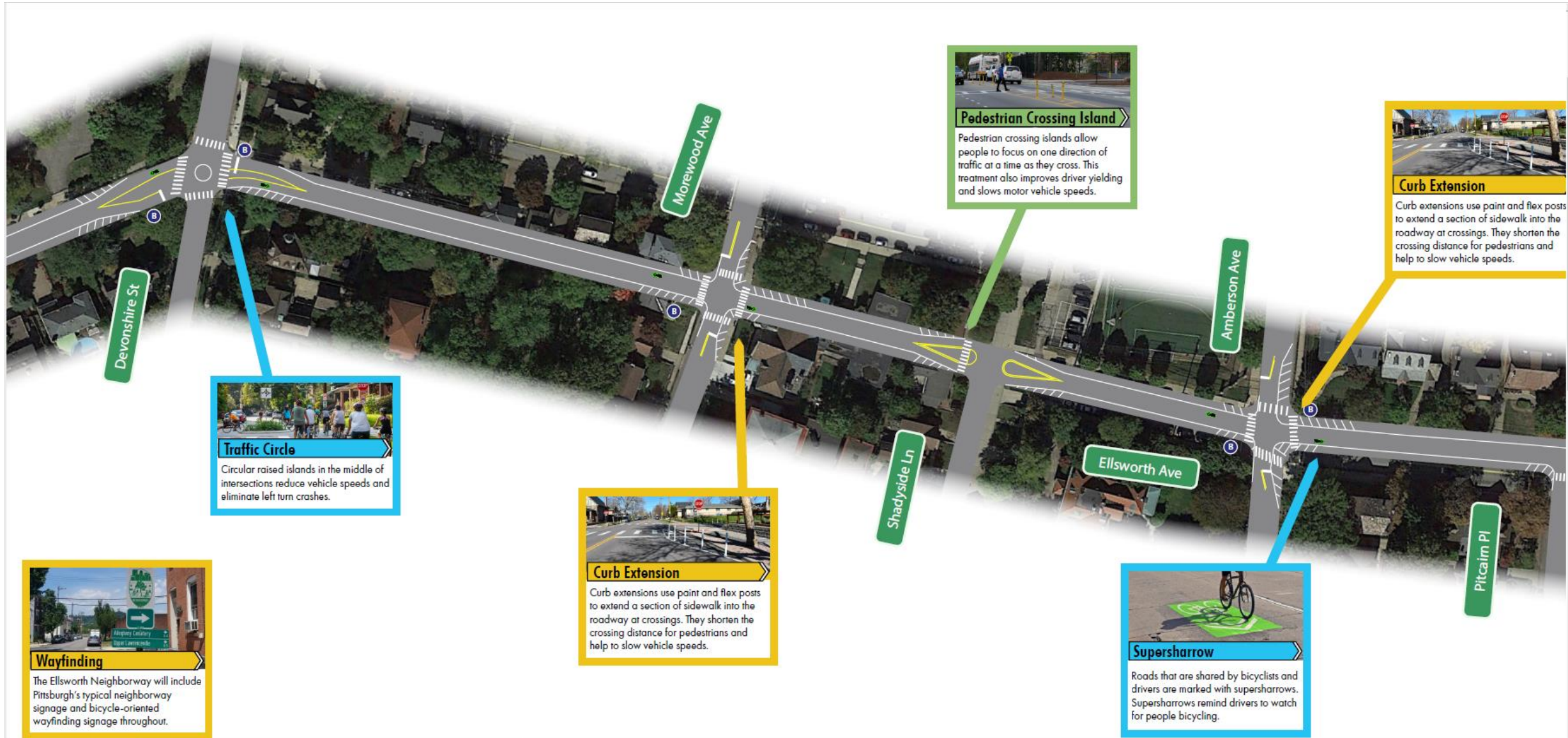


Design Concept - Transit Focused





Example of Concept Plan



This plan will address

Pedestrian Safety



A13b

- Evaluate all the intersections along the 5 corridors (except the one's intersecting Stanton Ave) and identify pedestrian safety issues.
- Review public inputs and concerns locations indicated by the community.
- Provide short, medium and long term recommendations for safety improvements.

Traffic Safety



- For the identified high crash intersections, evaluate current intersection operations, lane assignments and warrant study for turning lane modifications.
- Review public inputs and concerns locations indicated by the community.
- Identify safety issues and operational inefficiencies.
- Provide short, medium and long term recommendations for safety improvements.

Bus Stop Improvement



- Evaluate current bus stop locations and their accessibility and safety issues (Ex: Missing curb ramp, Hi viz crosswalk) from pedestrian and ADA viewpoint.
- Evaluate relocation or consolidation need of the stops.
- Review public inputs and locations of concerns indicated by the community.
- Identify potential bus stop locations and recommend amenities (For example- Bus shelter, seating arrangement, trash can, light etc.)



Thank You

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