## Frelinghuysen Corridor Redevelopment Plan

Fall 2018 Graduate Design Studio

Client: City of Newark

Edward J. Bloustein School of Planning & Public Policy

Rutgers, The State University of New Jersey

#### **ACKNOWLEDGMENTS**

## Rutgers University, Graduate Planning Design Studio Consultants

Silvia Cuevas-St. Paul, MN (May 2019)

Joshua Glickenhaus – Philadelphia, PA (May 2019)

Michael Lucia – Tampa, FL (May 2019)

Alexander Dougherty-East Hanover, NJ (December, 2018)

Elias Guseman-Ocean City, NJ (May 2019)

Harsheeta Gupta- Ahnedabad, India (May 2019)

Ardin, Jia Xiong Yeo- Singapore (May 2019)

Andrew Wainwright - Medford, NJ (May 2019)

Anna Quan- Cupertino, CA (May 2019)

## ACKNOWLEDGMENTS - RUTGERS UNIVERSITY FACULTY

## **Rutgers University Faculty**

Barbara Faga George Jacobs

David Listokin Alan Cander

Michael Lahr Jennifer Senick

Michael Greenberg Kelcie Ralph

# ACKNOWLEDGMENTS – COMMUNITY MEMBERS AND PROFESSIONALS

- Adelee Le Grand AICP, Chief Strategy Officer, New Orleans Regional Transit Authority (NORTA)
- Billy Terry, Associate Director National Transit Institute, (NTI)
- Bob Pell, Managing Director Urban Solutions, HATCH
- Darius Sollohub, AlA, Associate Professor, NJIT
- Ellen Heath FAICP, Senior VP, AECOM
- Juan O'Neill, Research Assistant Newark
- Matteo Ronga, AIA, President, AEO Corporation
- Tom Moriarty, Newark
- Tom Wright, Regional Plan Association
- Upendra Sapkota, Acting Planning Director, Newark
- Yvonne Garrett Moore, Public Relations and Planning

## DESIGN STUDIO SEQUENCE 2017-2019

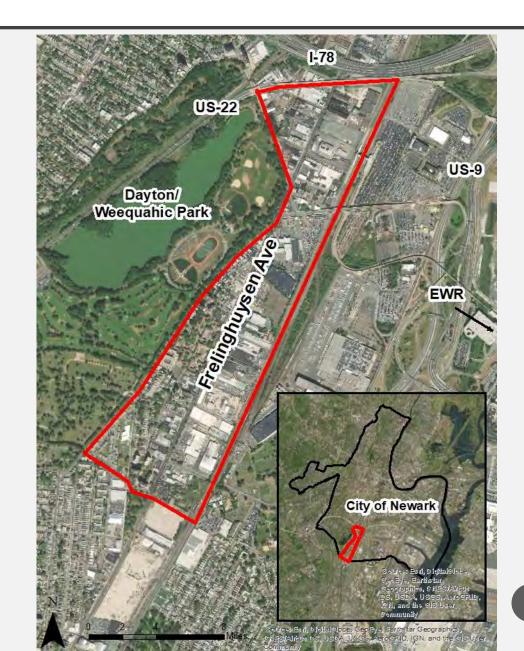
- Part I: Newark at the Crossroads, Bloustein Fall 2017, Graduate Studio
- Part 2: Newark Aerotropolis, Bloustein Spring 2018, Graduate Studio
- Part 3: Dayton Neighborhood, Bloustein Spring 2018, Graduate Studio
- Part 4: Weequahic Neighborhood, Bloustein Spring 2018, Graduate Studio
- Part 5: Frelinghuysen Avenue Corridor Study, Bloustein Fall 2018,
   Graduate Studio
- Part 6: NJIT NACA Headhouse, Fall 2018, Graduate Studio
- Part 7: Airport City, UPENN Spring 2019, Graduate Studio

#### **AGENDA**

- Introduction
- Redevelopment Area
- Vision
- Existing Conditions
- Real Estate Value Analysis
- Demographics
- Alternative I: 'Portal to the World'
- Alternative 2: 'Adaptive Reuse'
- Q&A

#### THE REDEVELOPMENT AREA

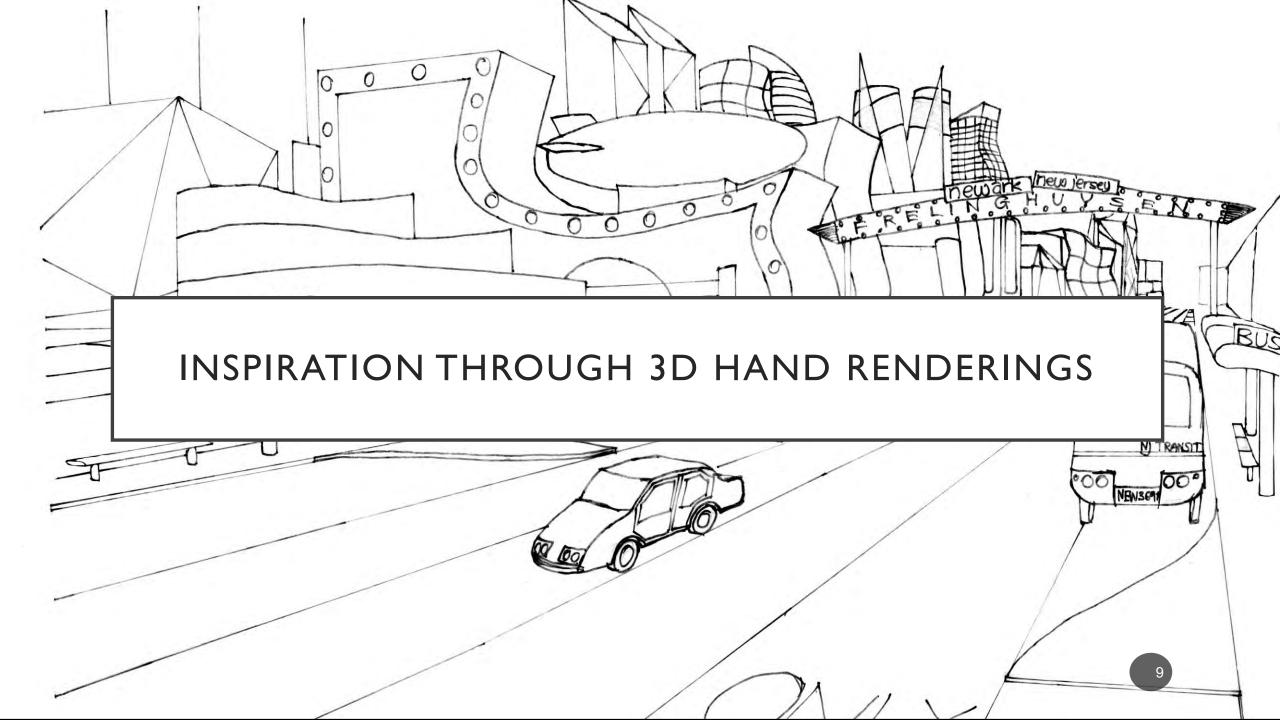
- Plan Area is located in southern tip of Newark, NJ, 4 miles west of Newark Liberty Airport
- Approximately 290 acres
- Bounded by Weequahic Park to the west, railroad tracks parallel to
   Frelinghuysen Ave to the east, I-78 Express to the north, and Virginia St to the south.
- 4 miles west of Newark Liberty Airport
- Historically industrial.
- Site area likely qualifies as an "area in need of redevelopment" (N.J.S.A. 40A:12A-14) given its vacant and boarded up buildings and trash and weed-ridden environment.

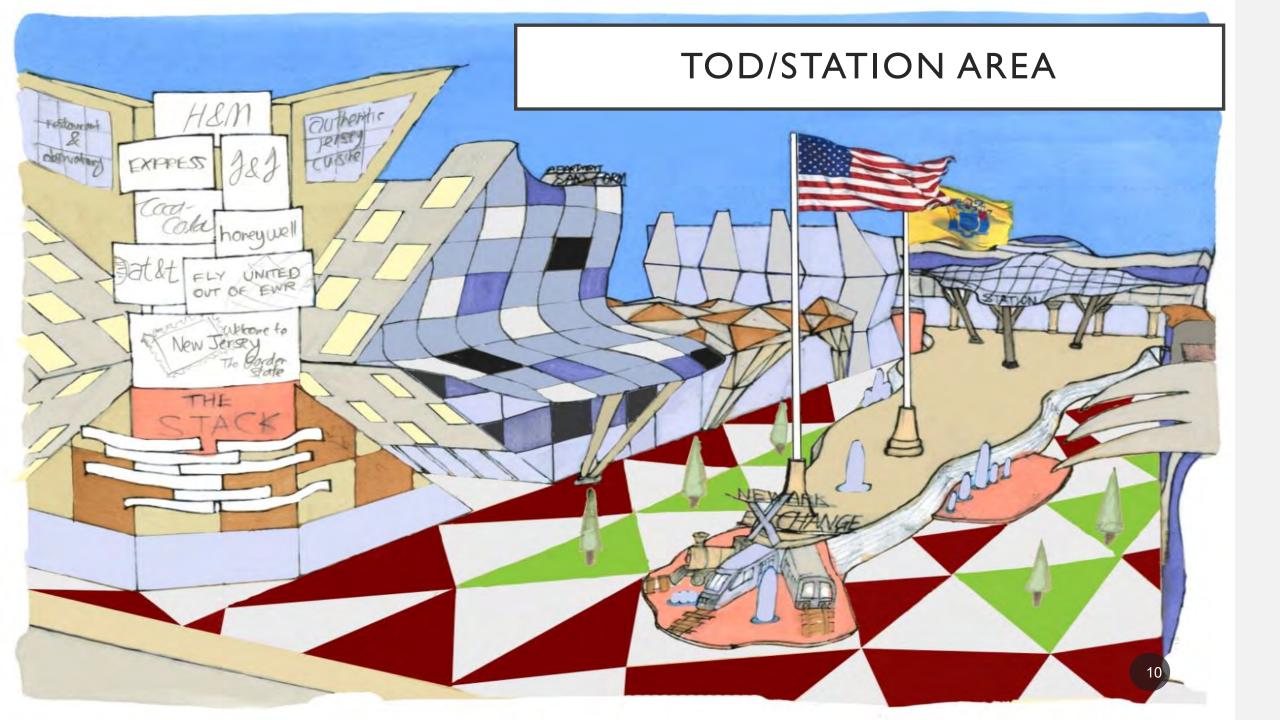


#### FRELINGHUYSEN 2050

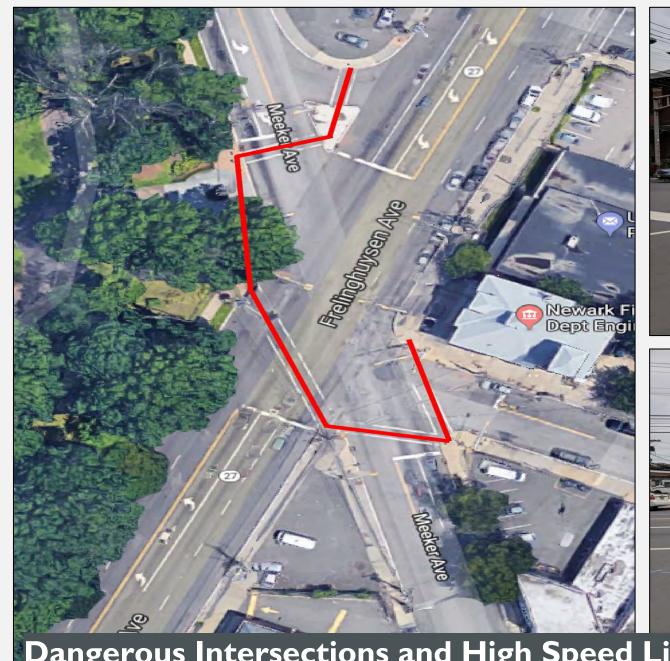
#### **Our Vision**

- Build DIVERSE and WELCOMING communities that are multicultural, intergenerational and affordable
- Spur ECONOMIC GROWTH in the site area and facilitate creation of LOCAL BUSINESSES and high-quality JOBS for residents
- Promote ACTIVE LIVING and HEALTHY lifestyles through design
- BEAUTIFY the neighborhoods' buildings and landscapes
- RESTORE the site area from contamination





## **EXISTING CONDITIONS**



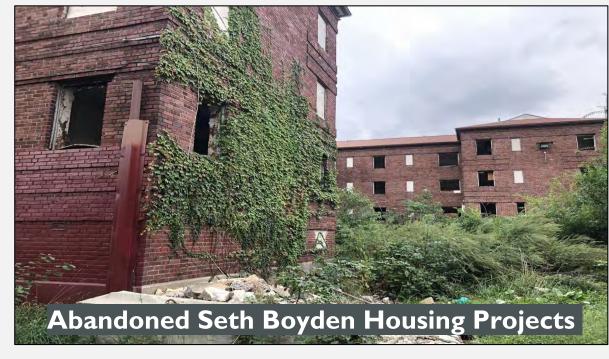




Dangerous Intersections and High Speed Limits

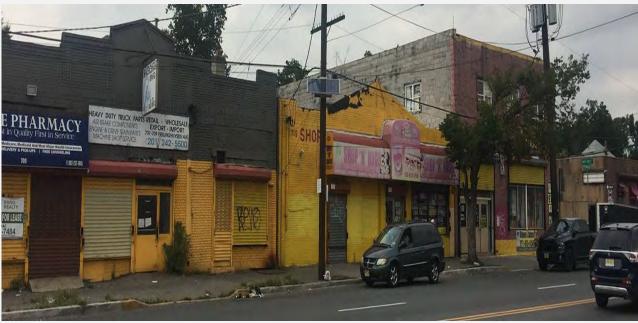












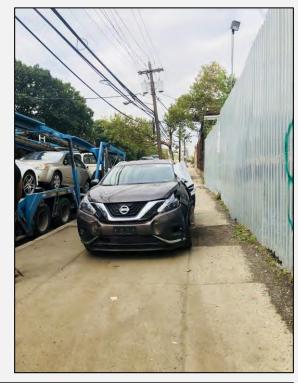


















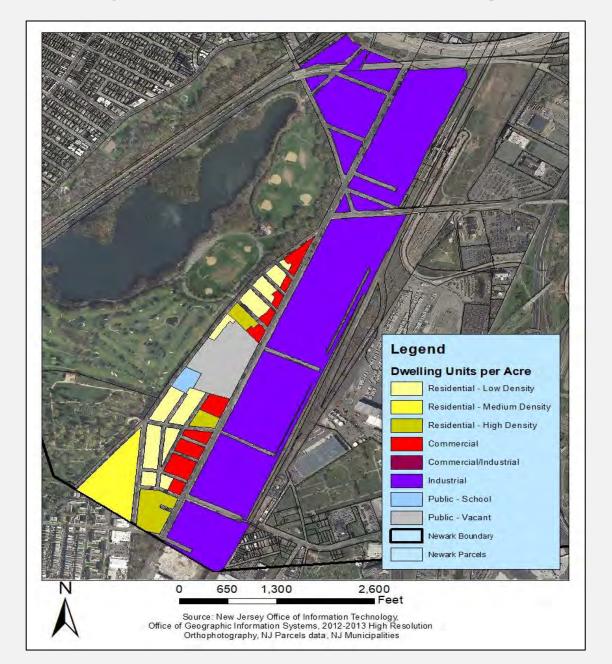


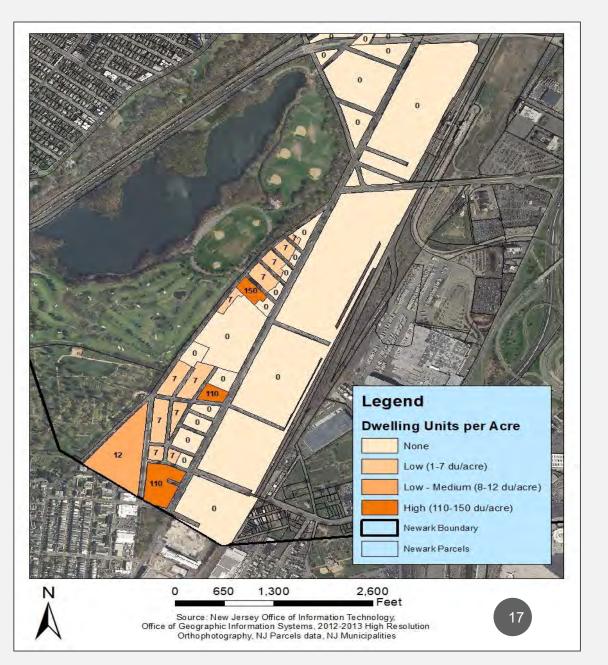






#### **Existing Land Use and Residential Density**





## PUBLIC PROCESS





# Faith Leaders Community Meeting (10/11/2018) Dayton Community meeting (11/13/2018)

#### Spur economic development

- Local businesses
- Skills development centers

#### Revitalize Seth Boyden site

Include civic centers and low-income housing for families

#### Build a welcoming, livable community

- Create mixed-use development (4-8 stories) with ground-level commercial
- Ensure that train and bus systems are connected.
- Increase opportunities for homeownership.

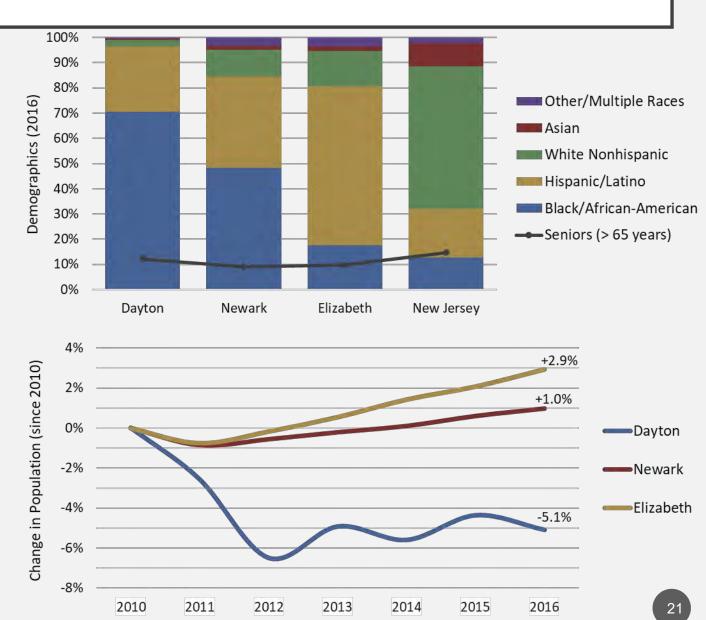
#### Address environmental concerns

- Improve storm water management to prevent flooding
- Clean up contaminated sites

## DEMOGRAPHICS

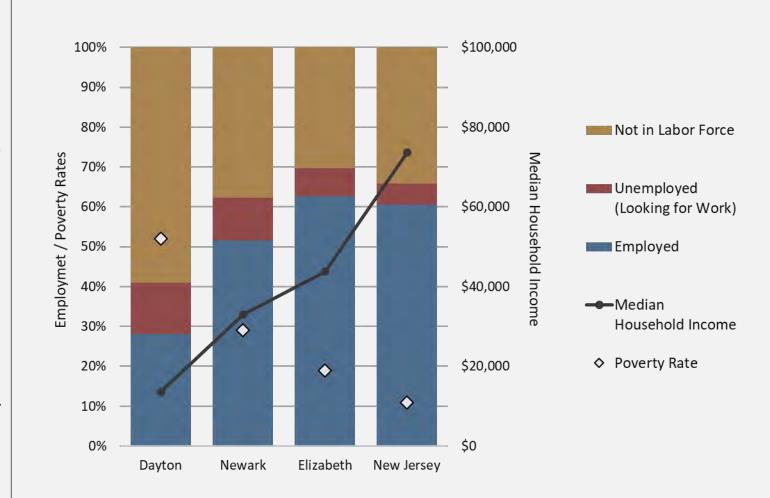
#### DAYTON - FRELINGHUYSEN CORRIDOR: DEMOGRAPHIC PROFILE

- Home to about 3,300 people in 2016
  - Pop. Density = 7,700 / sq mile (excluding park)
  - Less dense than Newark overall (11,580 pop/sq mile)
- About 58% of households live in public housing.
- Population has decreased -5.1% since 2010.
  - Newark (+1.0%) and Elizabeth (+2.9%) have increased total population over that time.



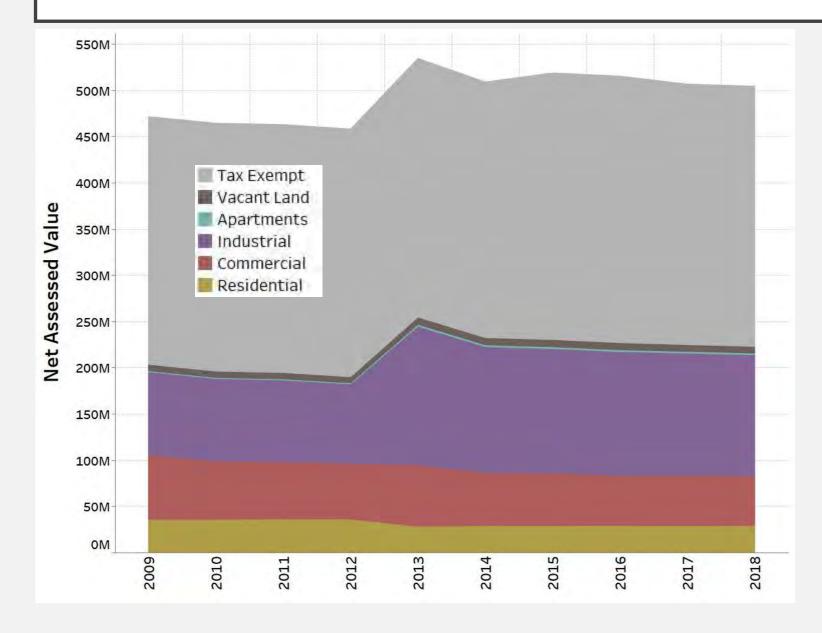
#### DAYTON - FRELINGHUYSEN CORRIDOR: SOCIOECONOMIC PROFILE

- Median Household Income = \$13,690
  - Far lower than Newark overall (median income = \$33,025)
- Economic divide between low-income public housing tenants and middleclass homeowners
  - About 6.5% of households own their home
  - Median household income among homeowners = \$105,670
  - Higher than median homeowner income in Newark overall
     (\$63,790)
- 59% of population is out of the labor force (retired or gave up looking)



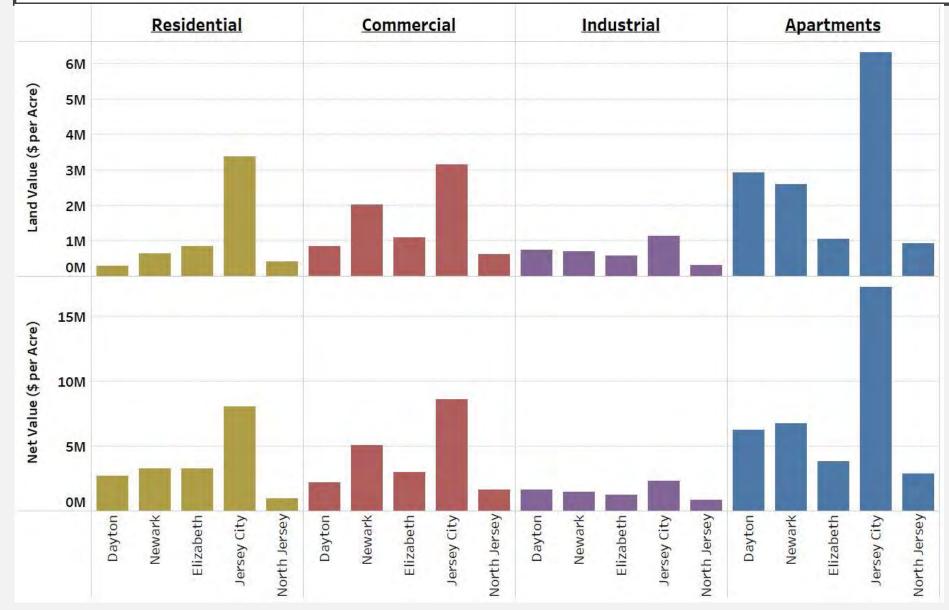
## REAL ESTATE VALUE ANALYSIS

## DAYTON - FRELINGHUYSEN: TAX BASE BY PROPERTY CLASS (2009 - 2018)



- Majority of property value in corridor is tax-exempt
  - Exempt property is mostly composed of public housing
- Industrial property is the largest share of net taxable value
  - Only class that has been growing since 2009
- Multifamily apartments (besides public housing) are currently a tiny share of the building stock
  - Opportunity for multifamily redevelopment of Seth Boyden site?

# REAL ESTATE VALUE BY PROPERTY CLASS: DAYTON – FRELINGHUYSEN AND REGIONAL PEERS (2018)



- Residential and commercial values slightly lag neighbors
- Industrial is regionally competitive, but the lowest-value land use across the board
- Small commercial and apartment supply in Dayton

#### CURRENT HOUSING STOCK: DAYTON - FRELINGHUYSEN CORRIDOR

#### **Private single-family homes**

- Fairly large, well-maintained homes on low-density lots
- Large homes possible because land is relatively cheap
  - Land = 10.8% of net assessed value
  - Compared to 19.4% in Newark; 26.3% in Elizabeth
- Only one low-rise privately-owned multifamily property



(142-156 Dayton St)

 Greater housing density would be expected to raise land values.







#### **Newark Housing Authority**

- Senior apartment housing at Seth Boyden and Otto Kretchmer (1,024 units)
- Townhomes at Otto Kretchmer (142 units)

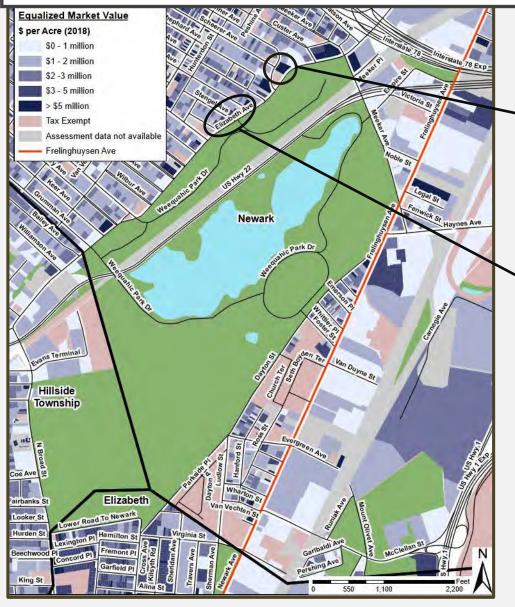








# LOCAL MARKET COMPARABLE: HIGHER-DENSITY APARTMENTS ACROSS WEEQUAHIC PARK



- Zion Towers (515 Elizabeth Ave)
  - 268 units of low-income housing
  - Built in 1969
  - Sold in 2017 for \$28 million, developer plans to renovate



 Three apartment buildings sold to private investors in 2016 give a sense of multifamily valuations at medium densities



585 Elizabeth Ave \$3.7 million



595 Elizabeth Ave \$1.3 million



603 Elizabeth Ave \$5.0 million

#### FINANCING REDEVELOPMENT: PUBLIC - PRIVATE PARTNERSHIPS

We expect that redevelopment of the Frelinghuysen Ave corridor will be driven by combination of **private market** forces and strategic **public investment**:

- Private developers will respond to fundamentally changing market conditions
  - We anticipate that addition of new PATH station with access to NYC will significantly increase residential demand
  - Changing zoning regulations to allow higher residential density will encourage private redevelopment, given sufficient demand.
  - Population growth from new housing and foot traffic from PATH station will provide customer base to support retail development
- PATH station adds substantial value to land along corridor, and we expect it to catalyze higher-density development if permitted.

- The City of Newark has low-cost tools available to support redevelopment
  - PILOT property tax relief
  - Tax Increment Financing (TIF)
  - Land sales from public inventory
- Local investments can be leveraged with federal tax credits or subsidized loans.
  - LIHTC for affordable housing
  - NMTC for job-creating commercial development
  - Regional CDFIs (e.g. NJCC, Reinvestment Fund) have specialized loan funds for designated uses
    - e.g. affordable housing, supermarkets, healthcare
  - Corridor is in a qualified low-income Census tract for many federal subsidies.

#### SUMMARY – REAL ESTATE AND REDEVELOPMENT

- Frelinghuysen Ave has historically been an industrial corridor, but the addition of the PATH station is likely to generate new demand for residential and commercial real estate. This creates opportunities for public-private redevelopment:
  - City can stimulate and influence redevelopment with its land resources and PILOT authority. Federal tax credits and nonprofit lenders can help bridge financing gaps.
  - Market activity on Elizabeth Ave shows existing demand for dense apartment housing along Weequahic Park.
- Potential challenges and constraints to redevelopment include:
  - Potentially high environmental remediation costs when redeveloping industrial sites.
  - Uncertain future of abandoned Seth Boyden site.
  - Current lack of local jobs or consumer base.



## Legend Land Use, Residential Density Residential, Low Residential, Medium Residential, High Commercial, None Mixed Use, Medium Mixed Use, High Civic, None Relocated Industrial, None **Newark City Boundary** Newark City Boundary Source: NJ Office of Information Technology, Office of GIS, New Jersey 2012-2013 High Resolution

Orthophotography, State of NJ Composite

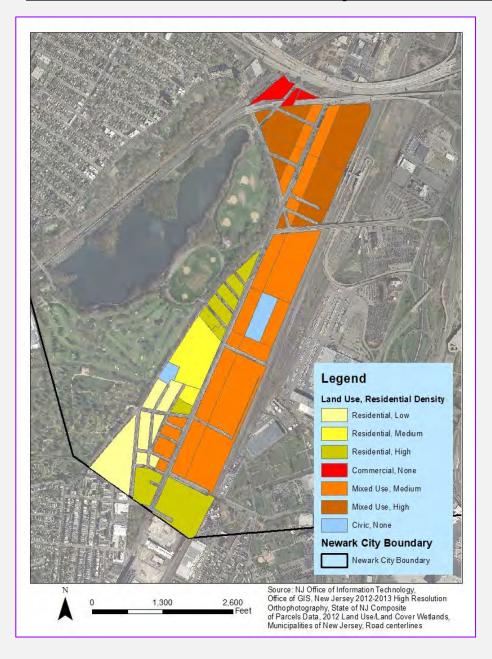
of Parcels Data, 2012 Land Use/Land Cover Wetlands, Municipalities of New Jersey, Road centerlines

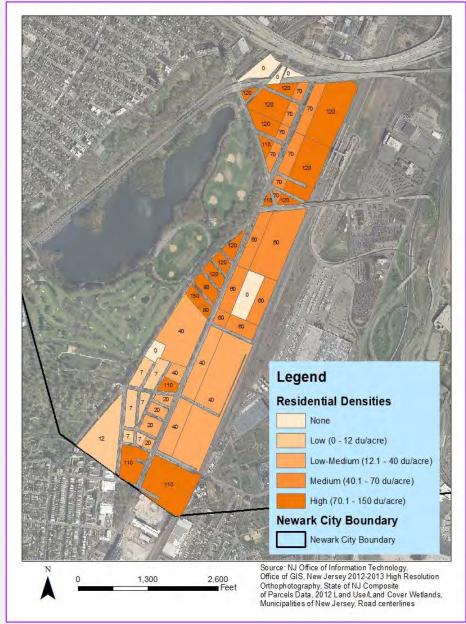
#### LAND USE RECOMMENDATIONS

- TOD near PATH station
- Pedestrian pathway from train station to park
- Compact low and mid-rise housing in Seth Boyden
- Mid to high-rise residential buildings facing park
- Existing low-density residential will remain
- Existing industrial relocated to east of rail lines

**Project Phasing:** Approximate build-out by 2050

#### **Residential Densities and Population Demographics**





#### **Estimated Densities:**

- 18,100 units
- Low: 39,900 people
- High: 51,300 people

#### **Target Populations:**

- I. Local residents
- 2. NYC commuters attracted to more affordable housing
- 3. Employees for Newark Airport and related industries
- 4. People who can access other areas of Newark and northern New Jersey through newly created Bus Rapid Transit system

#### LAND USE ALTERNATIVE I



Existing Built Fabric

#### LAND USE ALTERNATIVE I- PHASE I



Phase I

Development of PATH STATION

#### LAND USE ALTERNATIVE I- PHASE I



Phase I

Development of PATH STATION
TOD around the station

#### LAND USE ALTERNATIVE I- PHASE I



Phase I

Development of PATH STATION

TOD around the station

STREET NETWORK and PLAZAS

#### LAND USE ALTERNATIVE I- PHASE II



Phase I

Development of PATH STATION

TOD around the station

STREET NETWORK and PLAZAS

Phase II

Development of high-density HOUSING near the park

#### LAND USE ALTERNATIVE I- PHASE II



Phase I

Development of PATH STATION

TOD around the station

STREET NETWORK and PLAZAS

Phase II

Development of high-density HOUSING near the park STREET NETWORK around the station

#### LAND USE ALTERNATIVE I- PHASE III



Phase I

Development of PATH STATION

TOD around the station

STREET NETWORK and PLAZAS

Phase II

Development of high-density HOUSING near the park STREET NETWORK around the station

Phase III

Establishment of HEADHOUSE

#### LAND USE ALTERNATIVE I- PHASE III



Phase I

Development of PATH STATION

TOD around the station

STREET NETWORK and PLAZAS

Phase II

Development of high-density HOUSING near the park STREET NETWORK around the station

Phase III

Establishment of HEADHOUSE

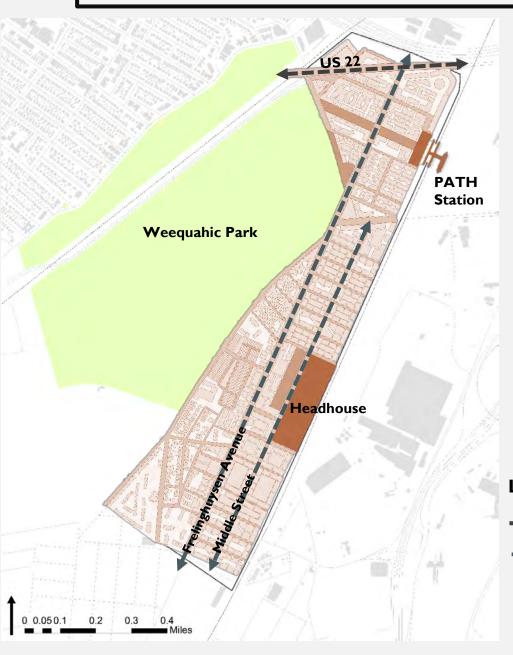
MIXED USE development along the Headhouse

#### **ILLUSTRATIVE SITE PLAN**







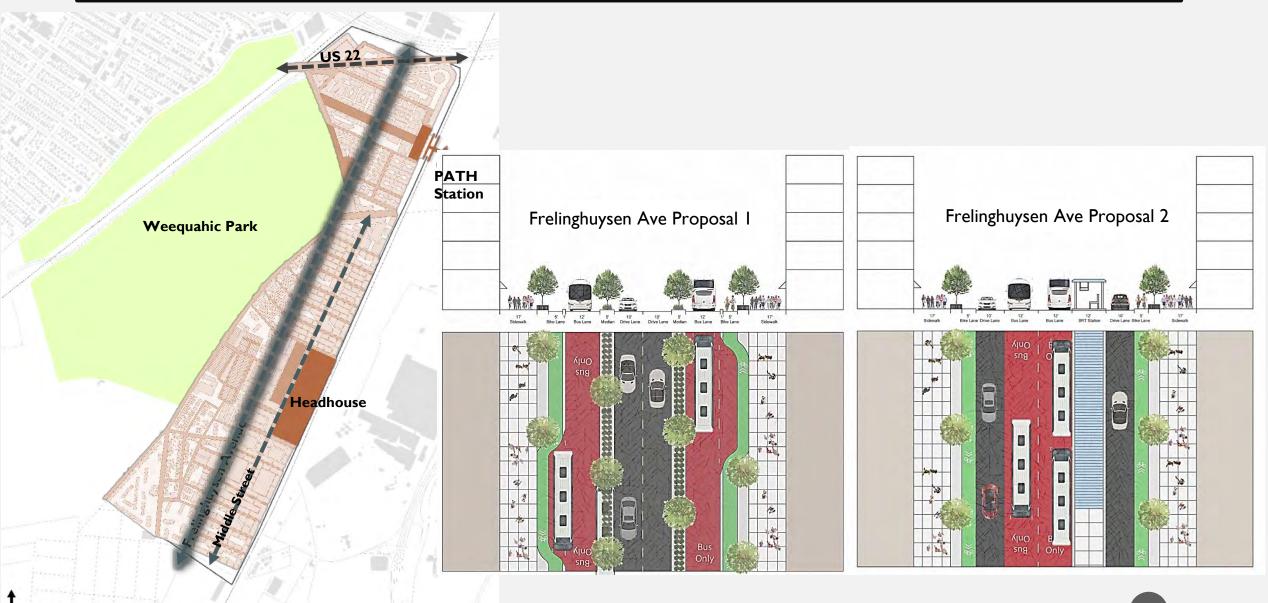


## High Traffic Flow

Frelinghuysen Avenue Middle Street

#### Legend

HighwayHigh Traffic







### Medium Traffic Flow

#### Legend

Highway

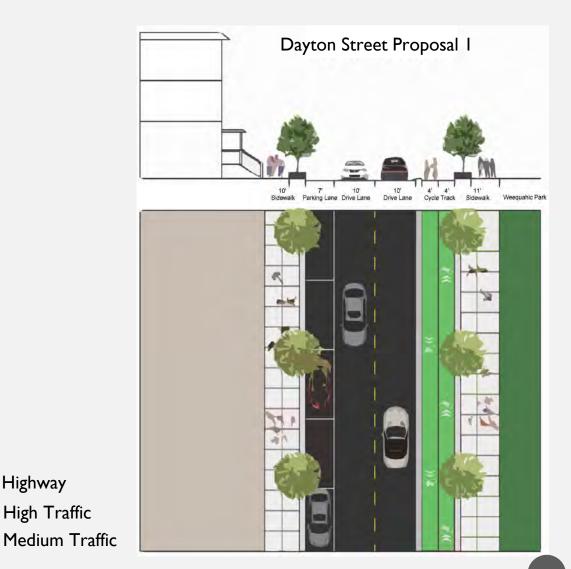
– – High Traffic

Medium Traffic

Highway

High Traffic







Low Traffic Flow (Residential Streets)

#### Legend

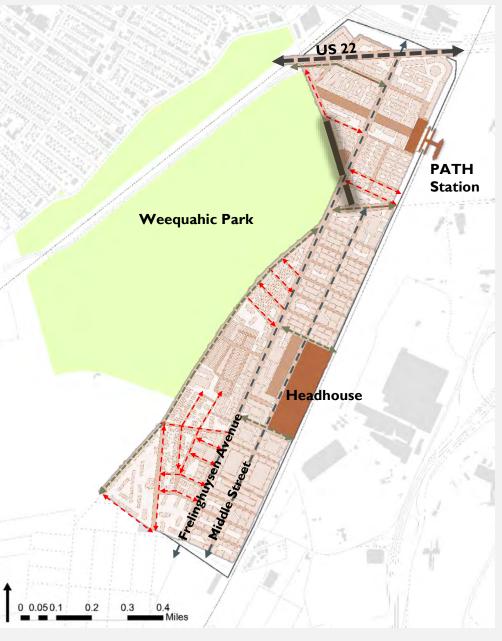
Highway

- - High Traffic

---- Medium Traffic

--- Low Traffic

#### PROPOSED ROAD CLOSURE







Times Square, New York

#### Legend

---- Highway

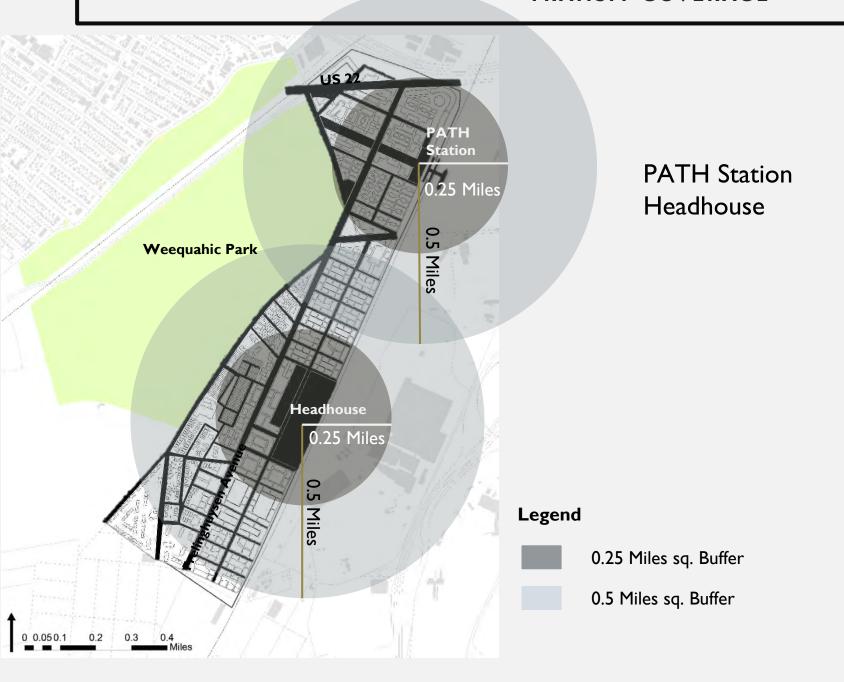
High Traffic

---- Medium Traffic

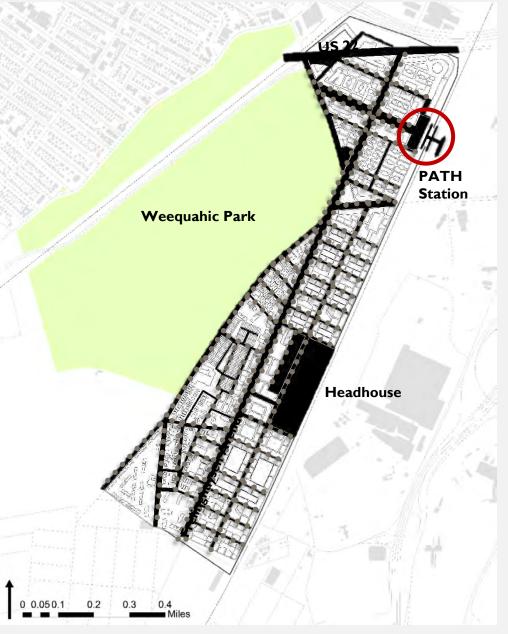
Low Traffic

Proposed Road Closure

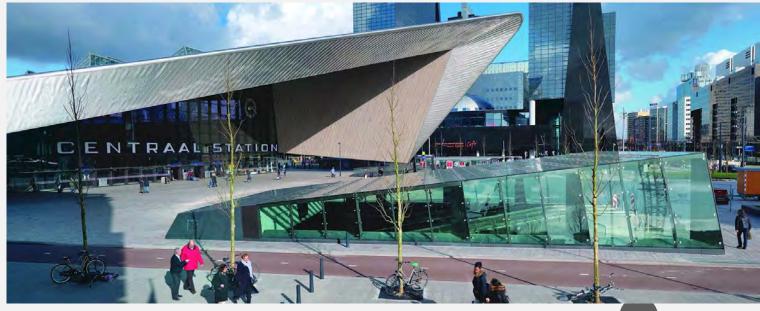
#### TRANSIT COVERAGE



#### **IMAGE BOARD - TRANSIT STATIONS**



#### **PATH Station**



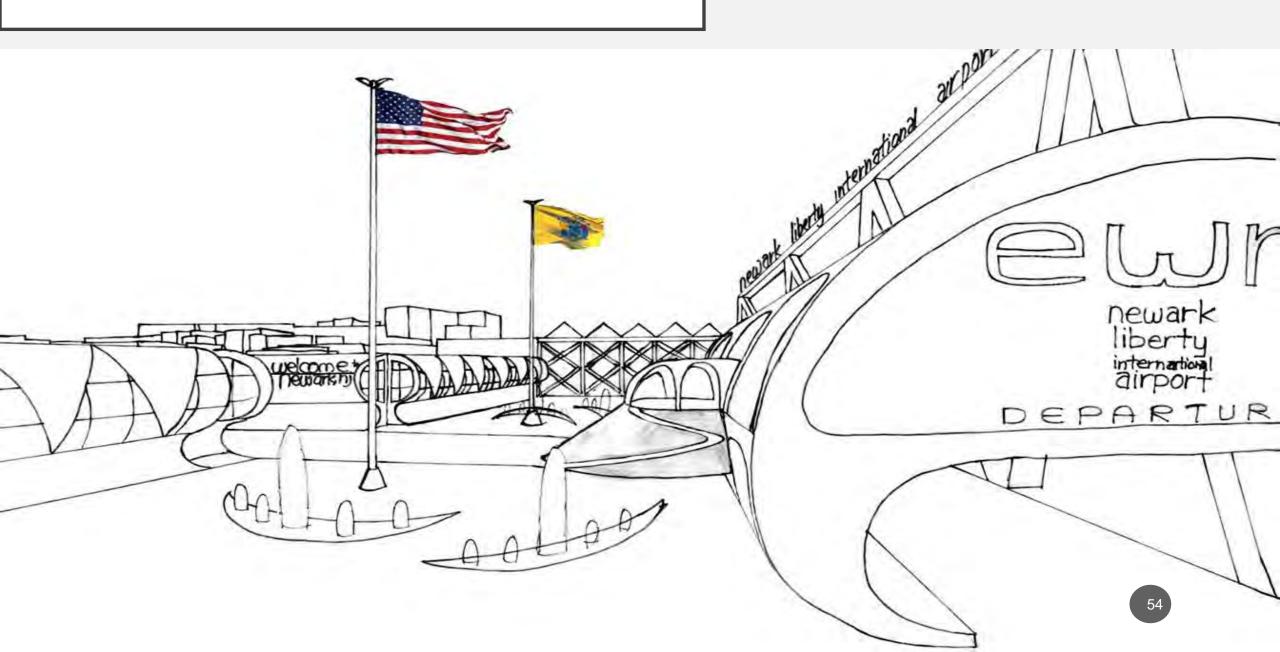
Rotterdam, Netherlands

#### **IMAGE BOARD - TRANSIT STATIONS**

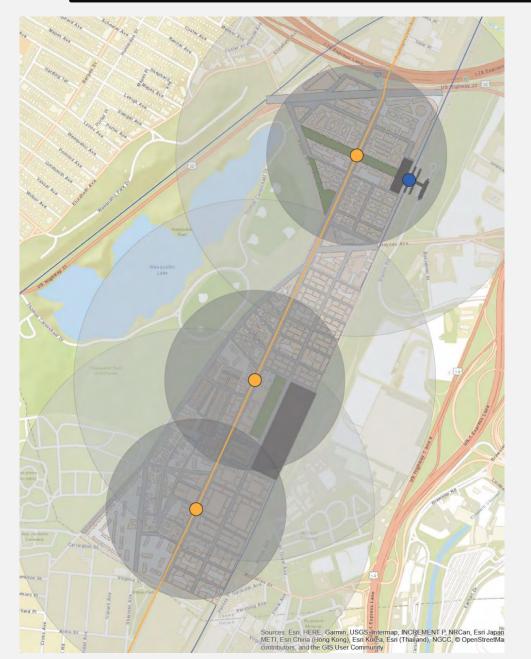




## HEAD HOUSE AREA



#### **BRT STOPS**

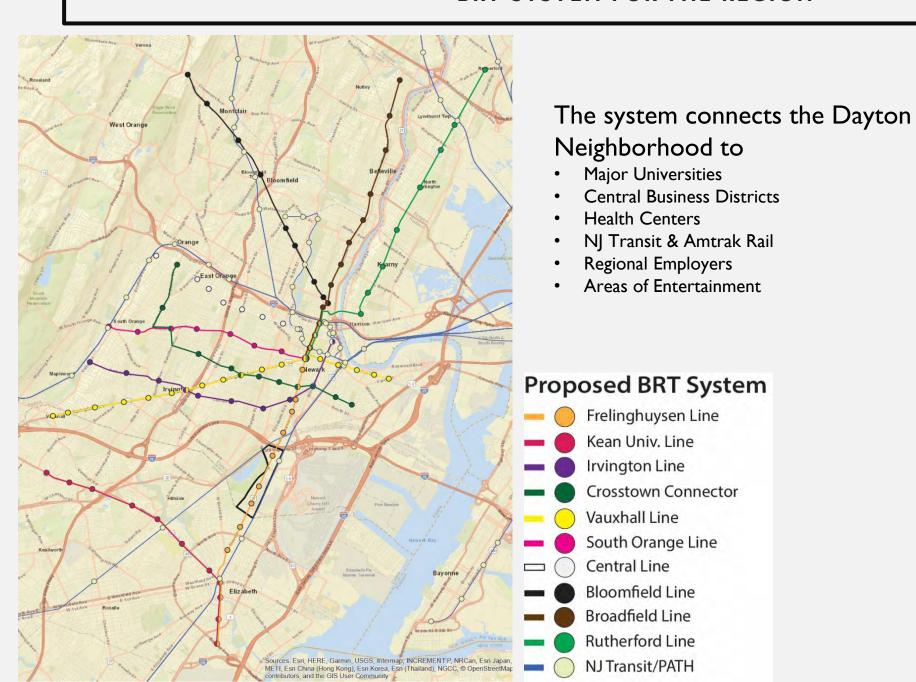


- The 3 stops are spaced between .3 and .6 miles apart
- The entire neighborhood is within a 5 or 10 minute walk of any station

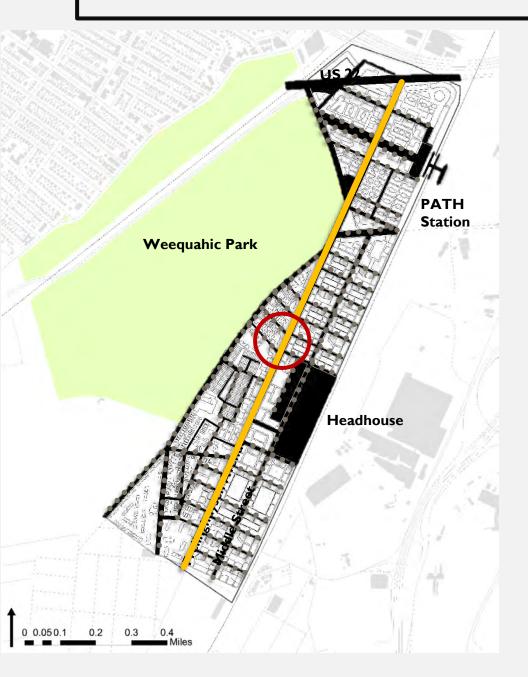
#### Site Area Legend

- Proposed BRT Stations
  - Proposed BRT Line
- NJ Transit/PATH Station
- NJ Transit/PATH Rail Line
- 5 Minute Walk Radius
  - 10 Minute Walk Radius

#### BRT SYSTEM FOR THE REGION



#### **IMAGE BOARD - BRTS**







**Cleveland BRT** 

#### **BICYCLE NETWORK**



#### **IMAGE BOARD - BIKE WAYS**





Phoenix – Cycle Track



Netherlands – 2 Way Bike

#### **OPEN SPACES AND GREEN PATHS**



#### IMAGE BOARD - STREET SIDE PLAZAS





San Francisco, California

#### IMAGE BOARD - PATH STATION PLAZA





#### IMAGE BOARD - HEADHOUSE PLAZA





Nara Prefecture, Japan

#### **IMAGE BOARD - HIGH DENSITY HOUSING**





Alexandria, Virginia

64

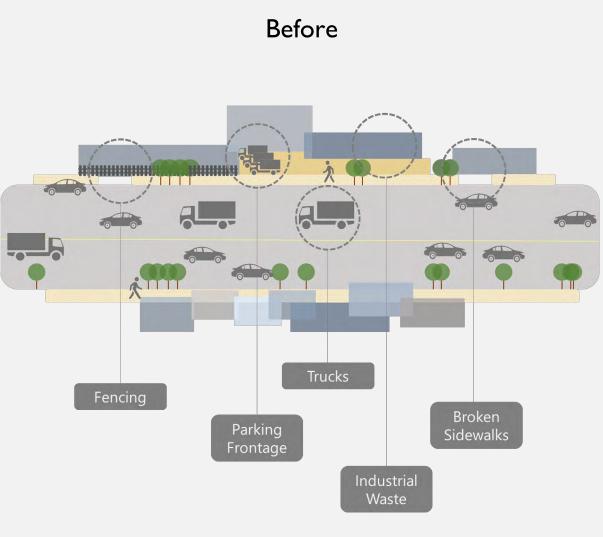
#### **IMAGE BOARD - MIXED USE DEVELOPMENT**

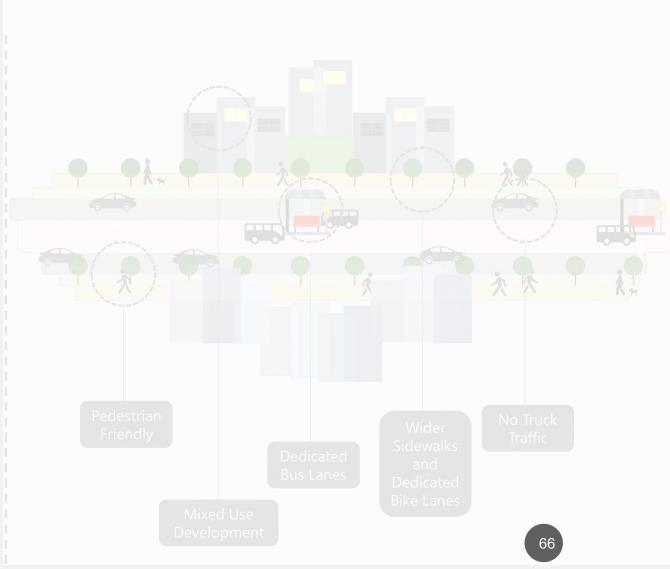




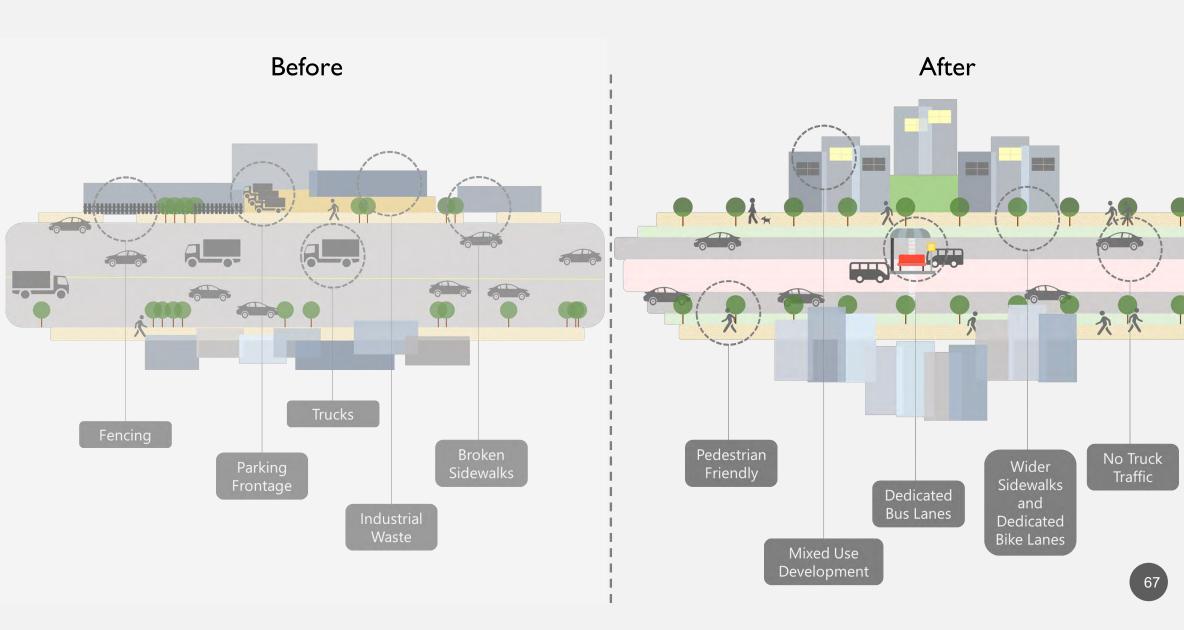
Omaha, Nebraska

#### FRELINGHUYSEN AVENUE

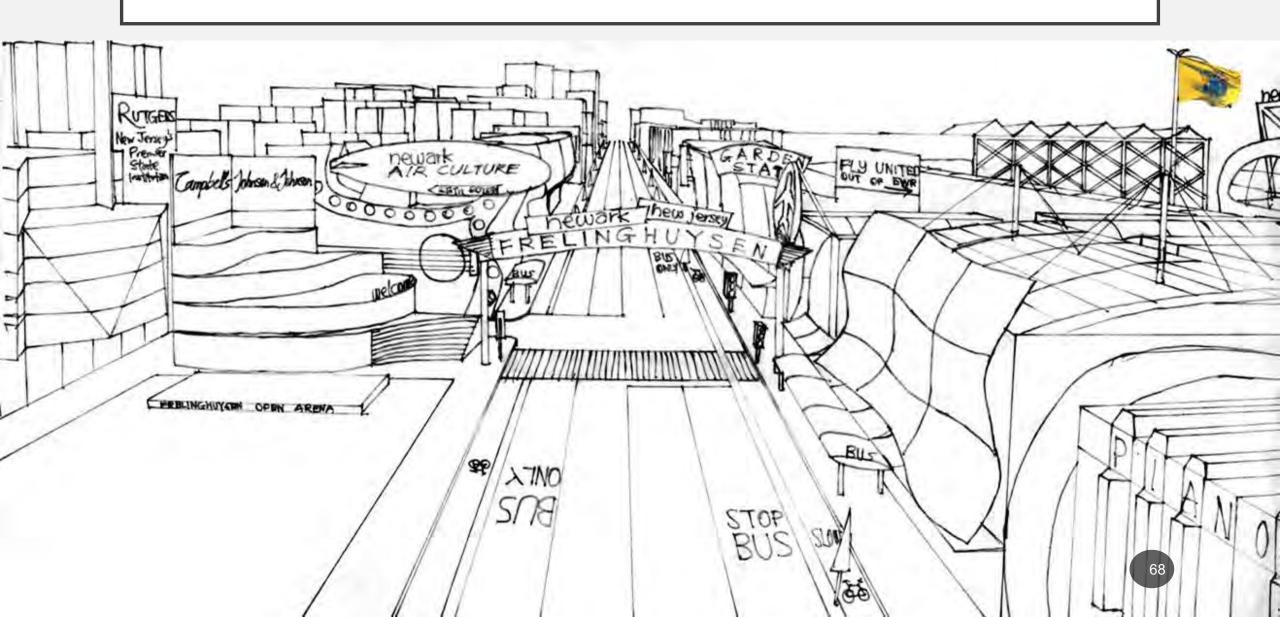




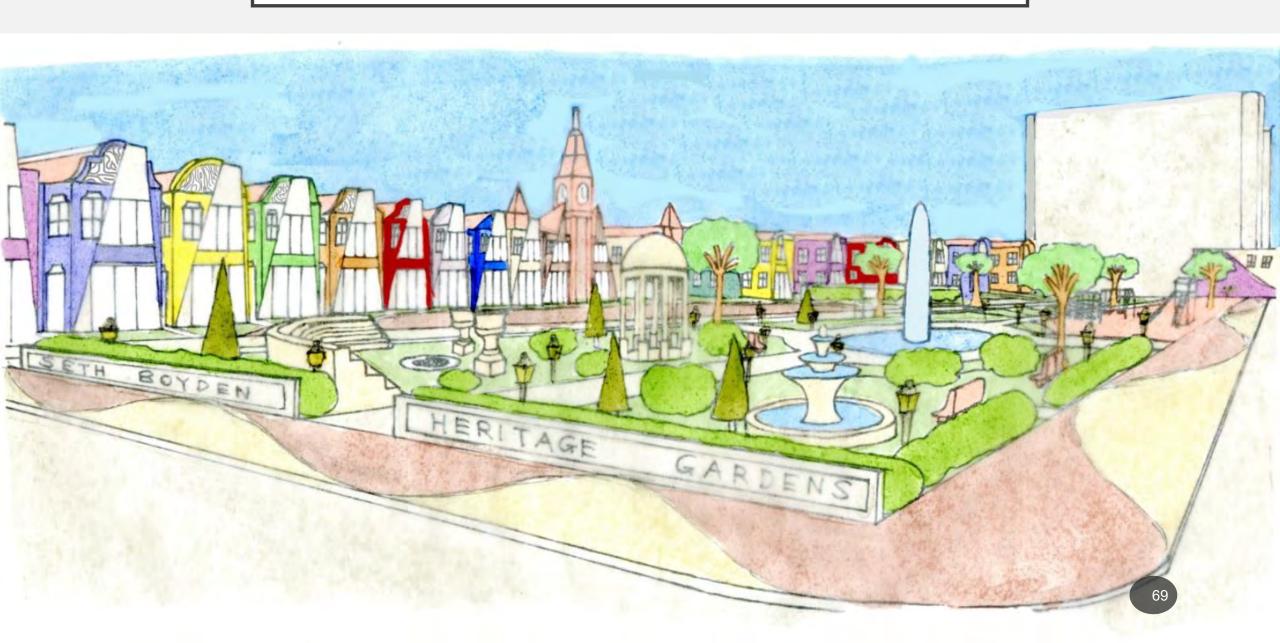
#### FRELINGHUYSEN AVENUE



## FRELINGHUYSEN AVENUE



## SETH BOYDEN RESIDENTIAL COMPLEX



## ESTIMATED-CONSTRUCTION COSTS AND JOBS

- Approximately 53 million square feet of new development
- Redevelopment construction costs are approximately \$7.9 billion

	Construction
Total Output	\$18.6B
Total Earnings	\$6.1B
Total Employment	155,000 jobs

## ESTIMATED - PERMANENT JOB CREATION

Ways to Create US Workforce:

Support Emerging Industries

Revive New Business Start-Ups

Attract Domestic and Foreign Investment

Workforce creation for commercial, hospitality, and medical industries are:

Total Permanent Jobs: 84,000



# 'Adaptive Reuse' Alternative 2

## **BOUNDARY MAP**

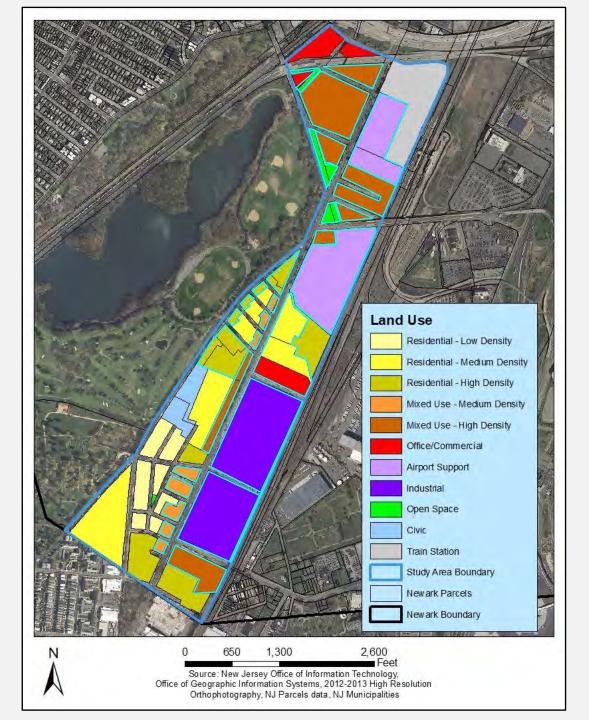


Focuses On Connecting Communities To Transit By More Pedestrian Friendly Streets, Bike Lanes, & More Connections To Bus Transit.



## Transit-Oriented Development (TOD)

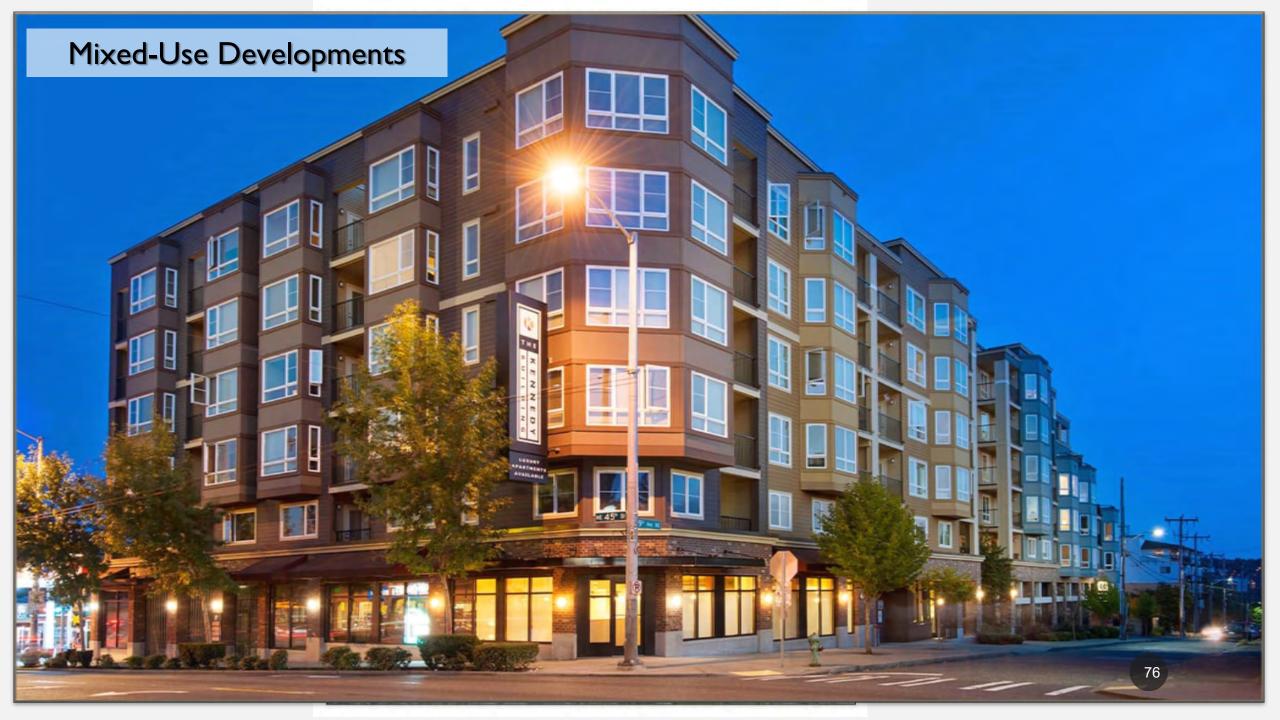
Compact, Pedestrian-Oriented, Mixed-Use Development Around a Transit Station



# **Zoning Highlights**

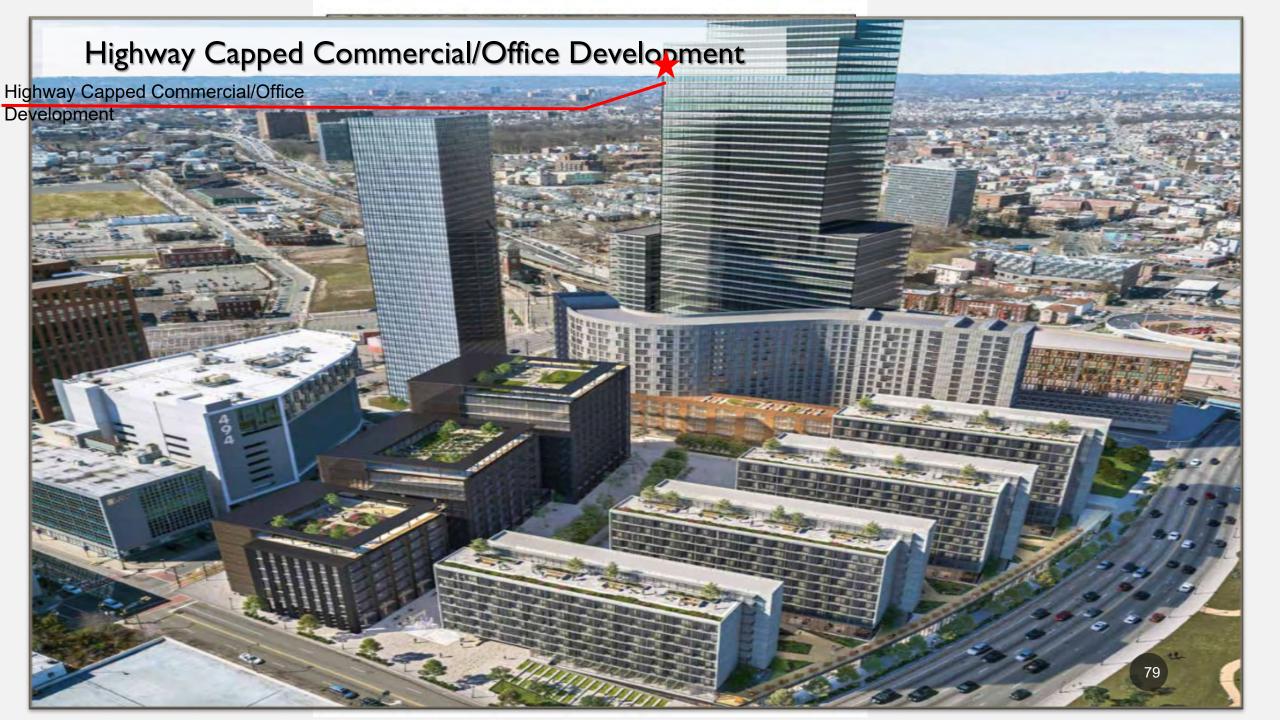
- Transit Oriented Development (TOD) to create sense of place and promote economic growth around PATH Station
- **Airport support** hotel, conference center, office space
- Street closures to promote pedestrian safety and create open space
- High-rise residential towers looking over Weequahic
   Park
- Adaptive reuse of dilapidated and abandoned structures for residential lofts and commercial uses
- Truck service road to provide better access to industrial properties and remove trucks from Frelinghuysen
- Preserve existing industrial uses
- Mixed-use development along Frelinghuysen to provide services and amenities to Dayton neighborhood



















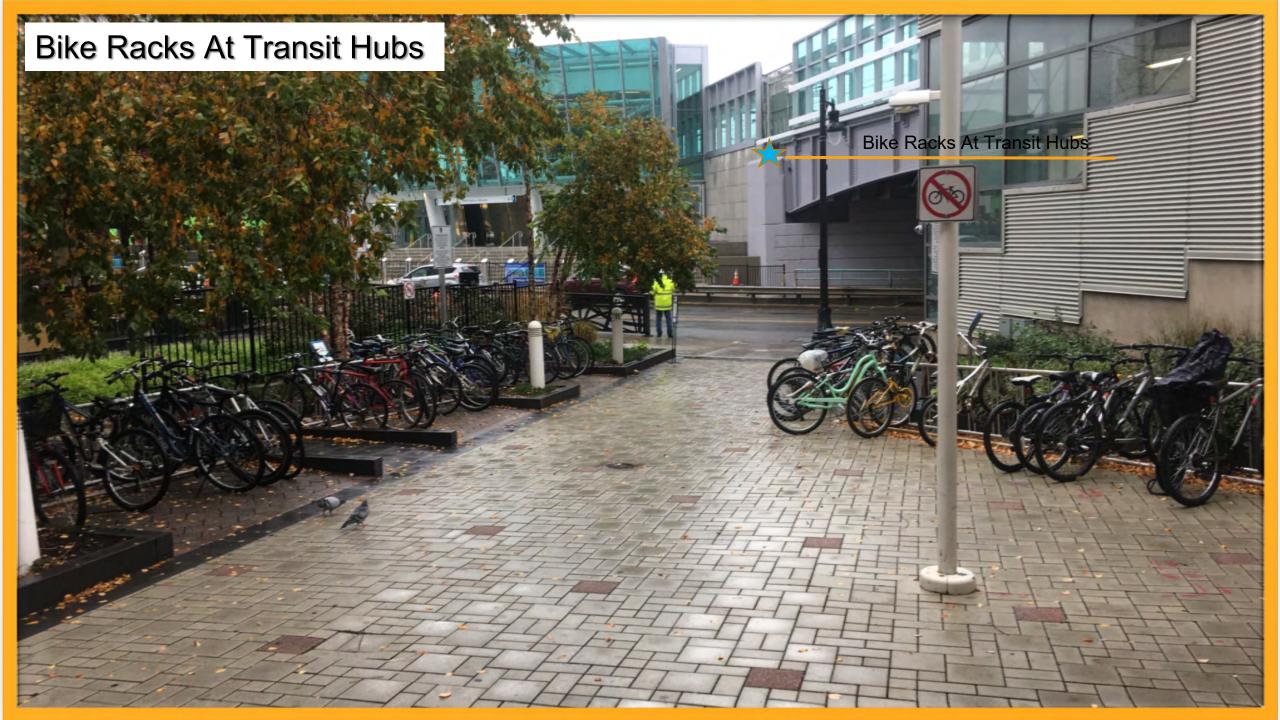






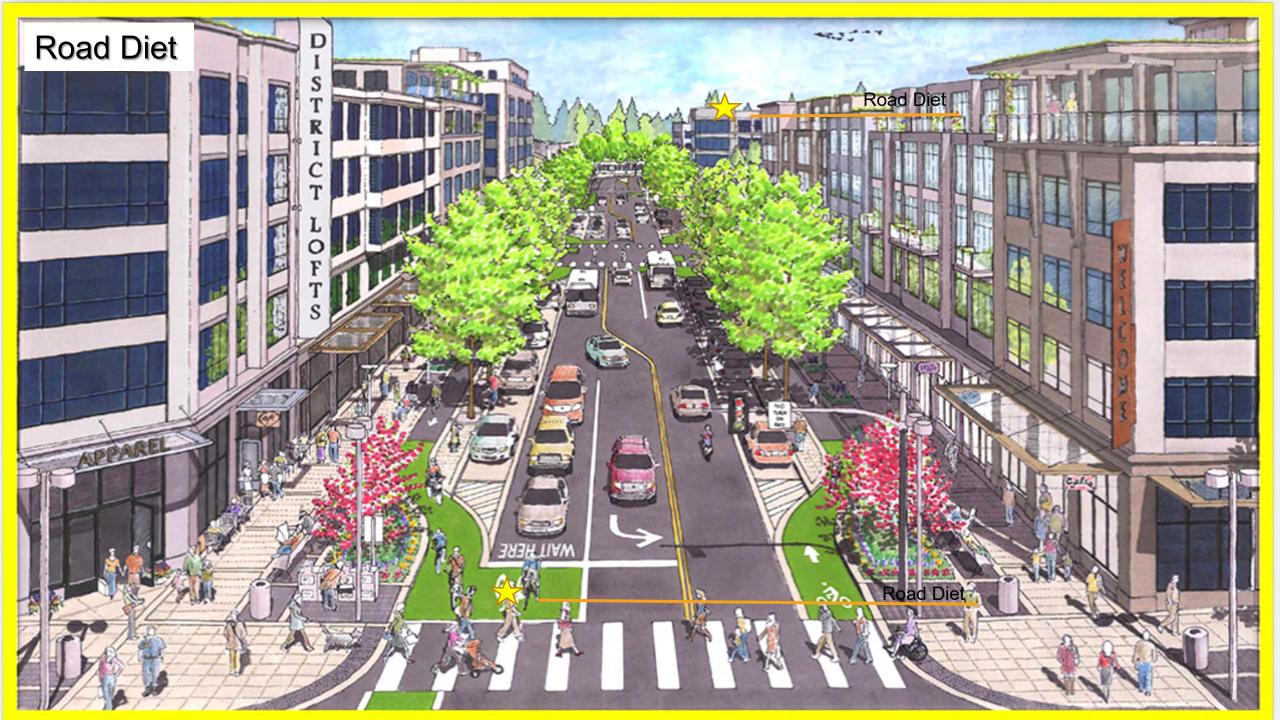






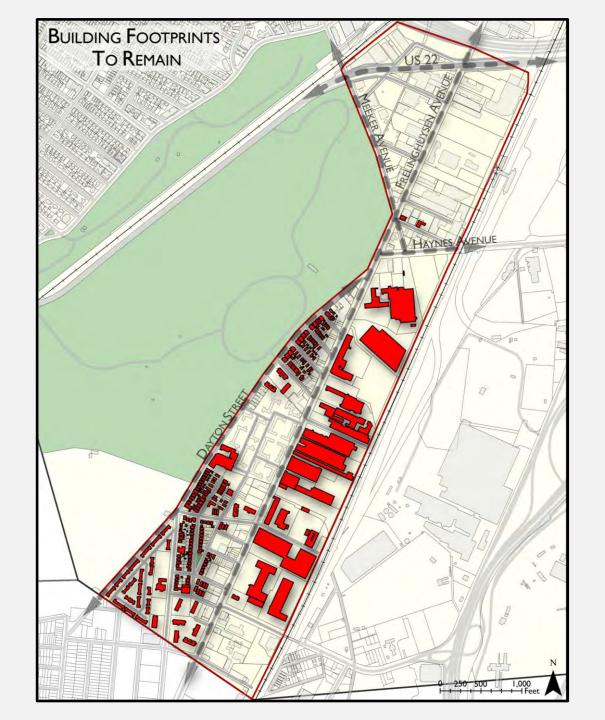




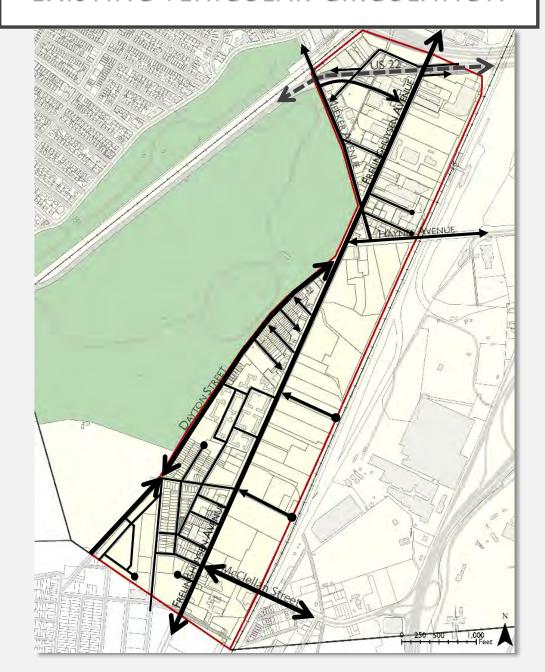




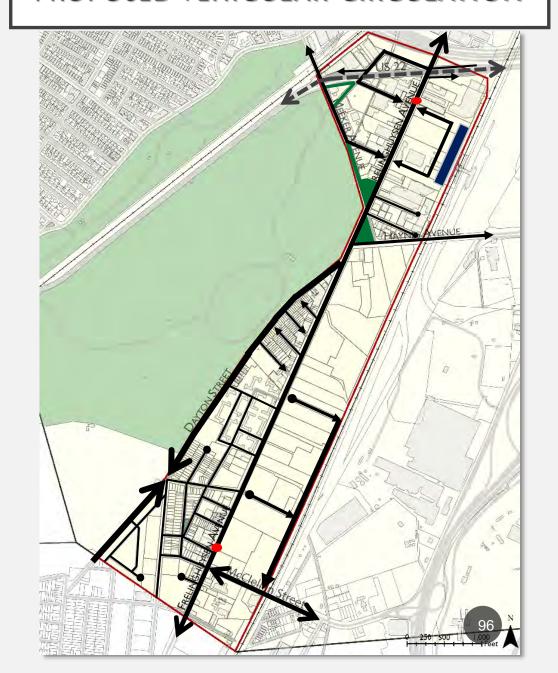




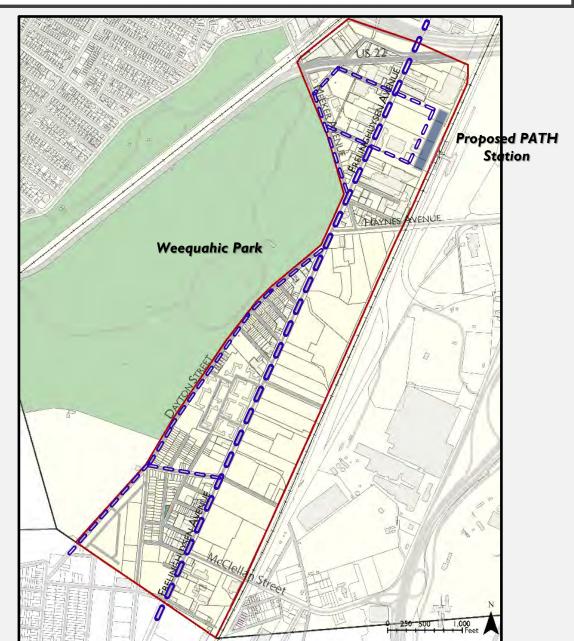
#### **EXISTING VEHICULAR CIRCULATION**



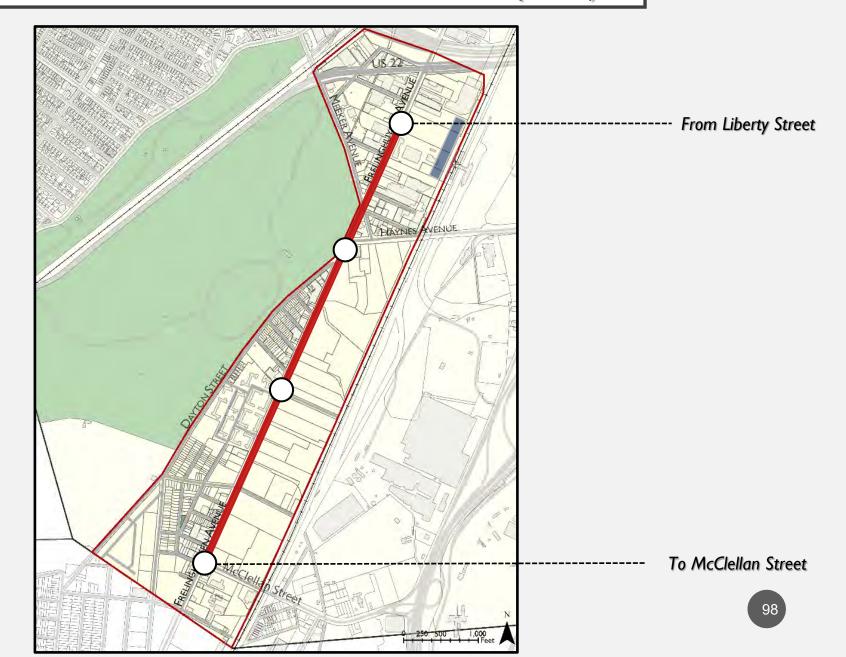
#### PROPOSED VEHICULAR CIRCULATION



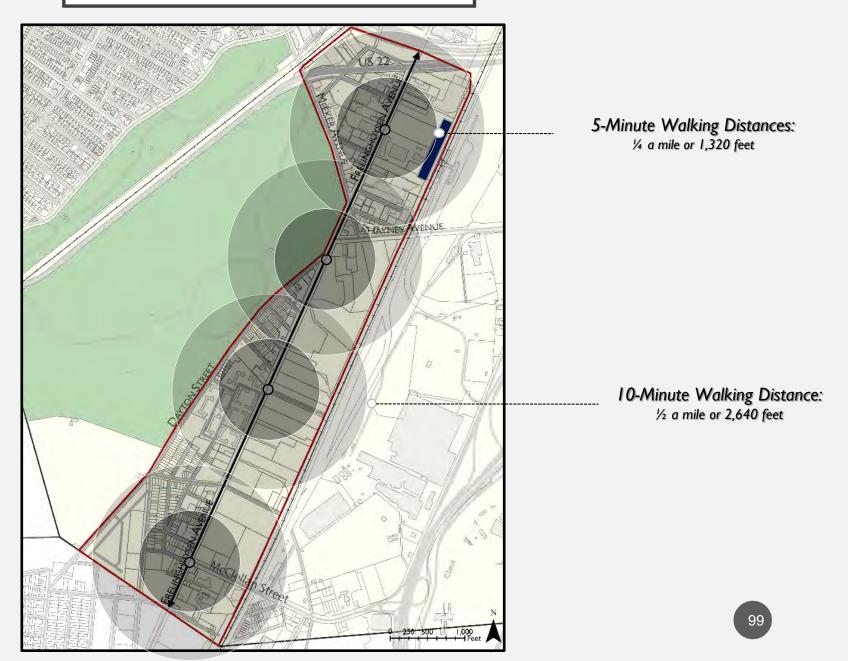
# PROPOSED BICYCLE CIRCULATION

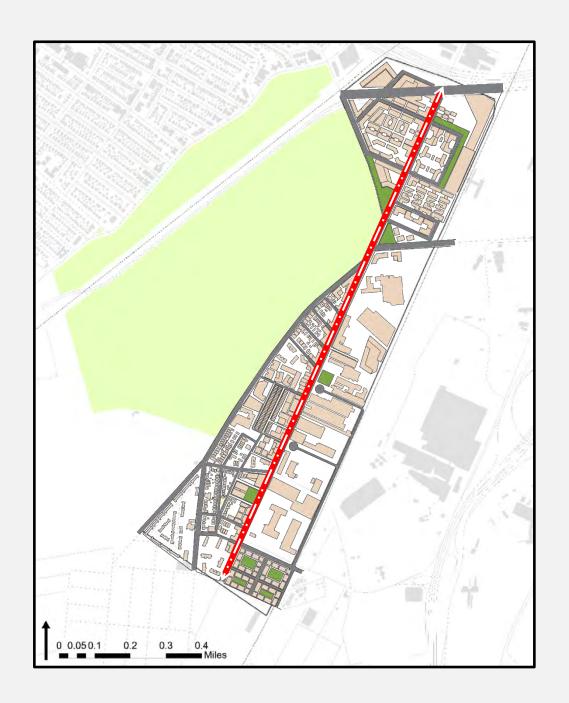


# PROPOSED BUS RAPID TRANSIT (BRT)



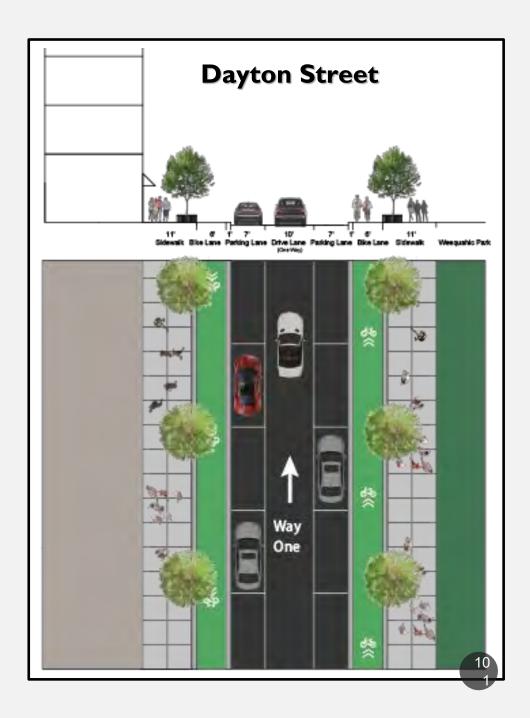
# BRT/TRANSIT ACCESS

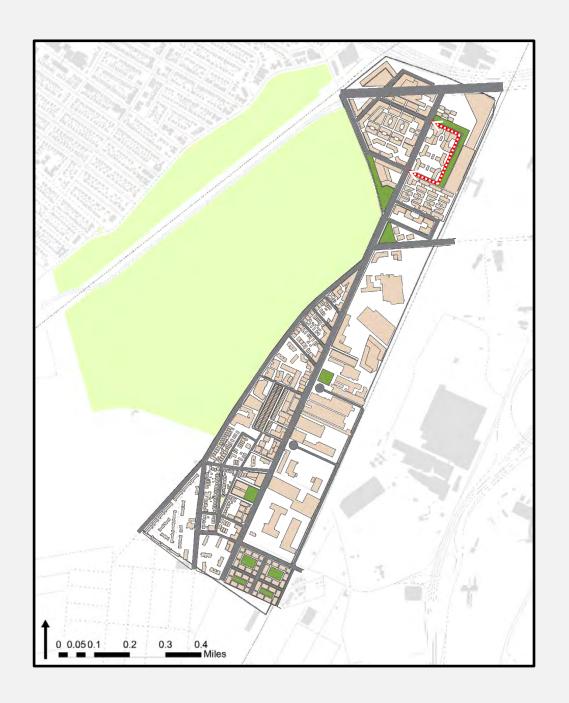


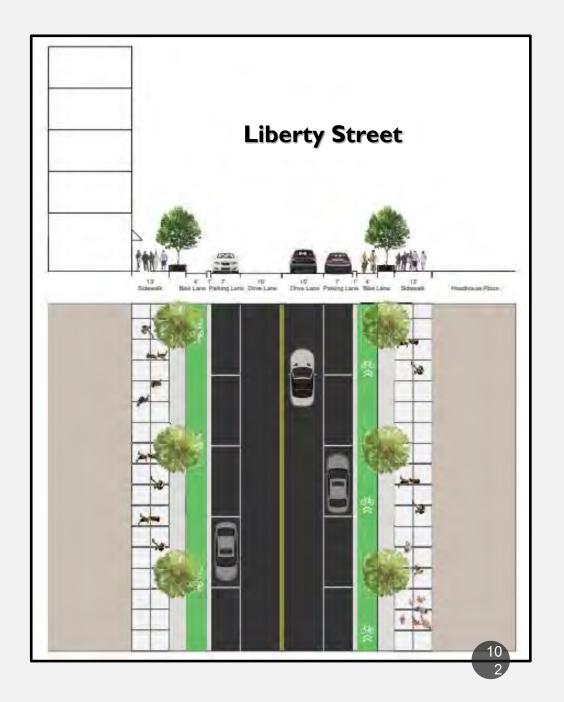




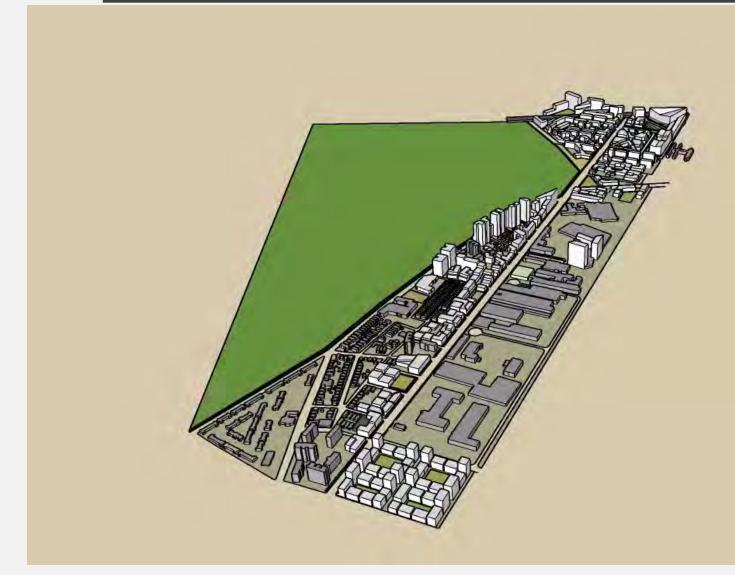


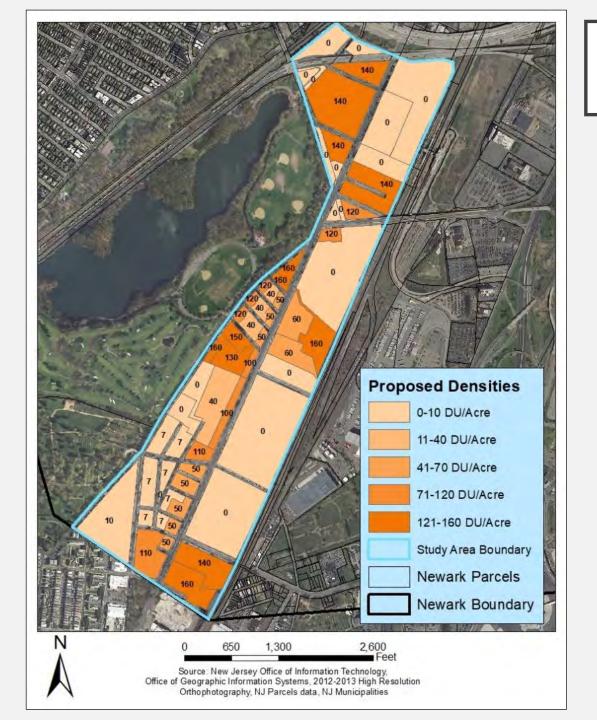






# 3D FRELINGHUYSEN CORRIDOR - ALTERNATIVE 2





# RESIDENTIAL DENSITIES

#### **Projected Growth:**

**Units**: 10,679

New Residents: 23,482 - 29,885

#### **Target Population:**

- Employees of Newark Airport and supporting industries
- 2. NYC commuters searching for more affordable housing options
- 3. People who want access to public transit networks that connect them to other parts of Newark and Northern New Jersey

## ESTIMATED—CONSTRUCTION COSTS AND JOBS

- Approximately **6.3 million** square feet of new development
- Redevelopment construction costs are approximately \$952 million

	Construction
Total Output	\$2.2 billion
Total Earnings	\$722 million
Total Employment	18,000 jobs

105

## ESTIMATED PERMANENT JOB GROWTH

#### Goals:

- Provide jobs to residents in Dayton and surrounding neighborhoods.
- Tie new development along Frelinghuysen with the Newark Airport
- Promote diversity of economic industries that can attract a variety of job types, including office, industrial, retail, restaurant, and hotel jobs.

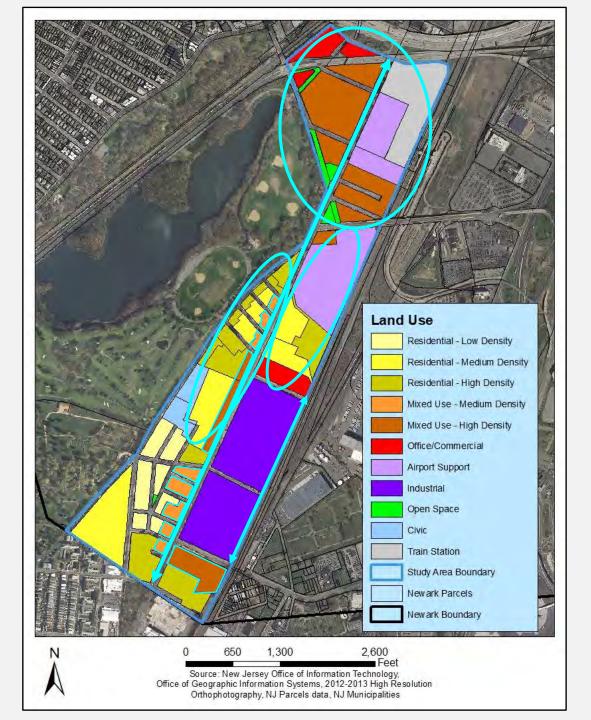
#### Jobs:

Commercial: 29,100

Industrial: 2,100

Hospitality: 3,500

Total: **34,700** 



# **Project Phasing**

Approximate build-out by 2050

- Phase I
  - Frelinghuysen Road Diet
  - Eminent Domain on industrial/warehousing properties on industrial properties east of Frelinghuysen for designate private truck service road (40 ft. ROW)
- Phase 2: Convert dilapidated industrial structures north of Haynes Avenue into mixed-use development
- Phase 3: Encourage redevelopment of industrial sites north of Van Duyne Street into airport support, office, residential, and commercial uses.
   Encourage more compact development around Weequahic Park, in Seth Boyden, and along Frelinghuysen

## THANK YOU!

