New Jersey Complete Streets Training

Oct 10, 2022 (North) Oct 20, 2022 (Central) Oct 27, 2022 (South)









You are here!

Module 2: Planning

- Basics
- Costs & Benefits
- Emerging Trends

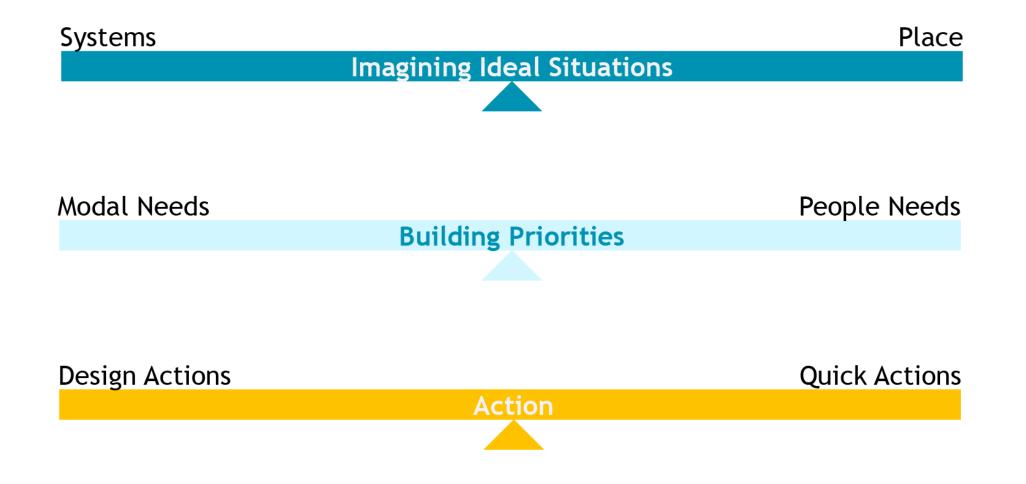
Engagement & Visioning Planning & Zoning Policies Performance Measures

Module 3: Module 3: Design

- Assessment
- Typologies & Design Elements
- Group Exercise



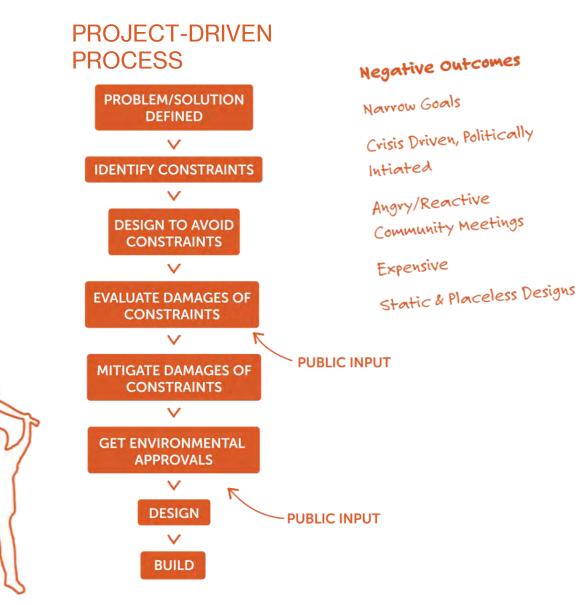
A Balanced Approach to Action



Placemaking/Streets as Places

D.A.D. Decide, Announce, Defend.

NO



Project for <u>Public</u> Spaces

Placemaking/Streets as Places

P.O.P. Public Owns the Project.



Project for <u>Public</u> <u>Spaces</u>

Placemaking/Streets as Places



Photo credits: Project for Public Spaces

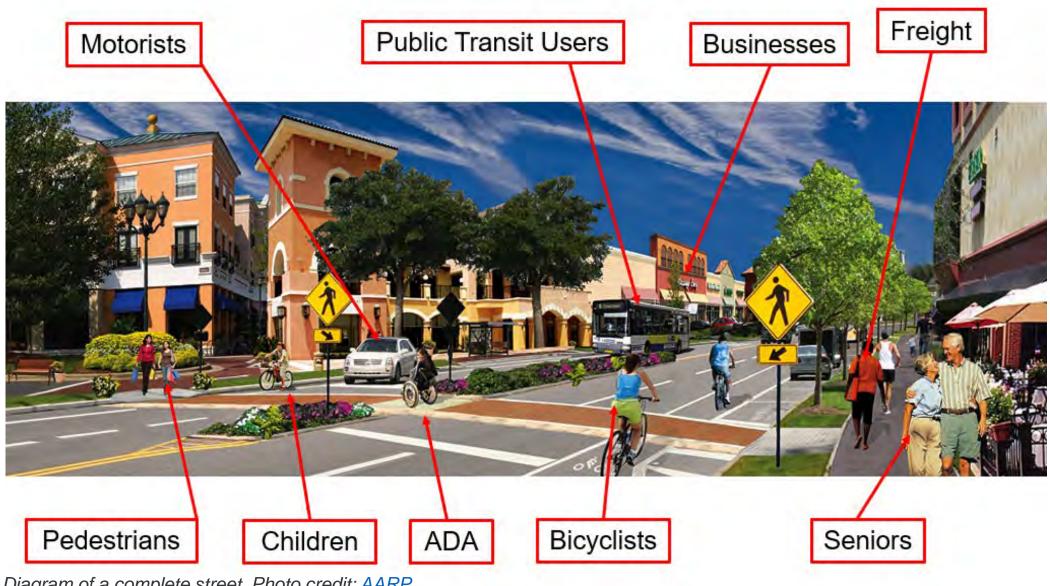


Diagram of a complete street. Photo credit: AARP

• Who is prioritized here?

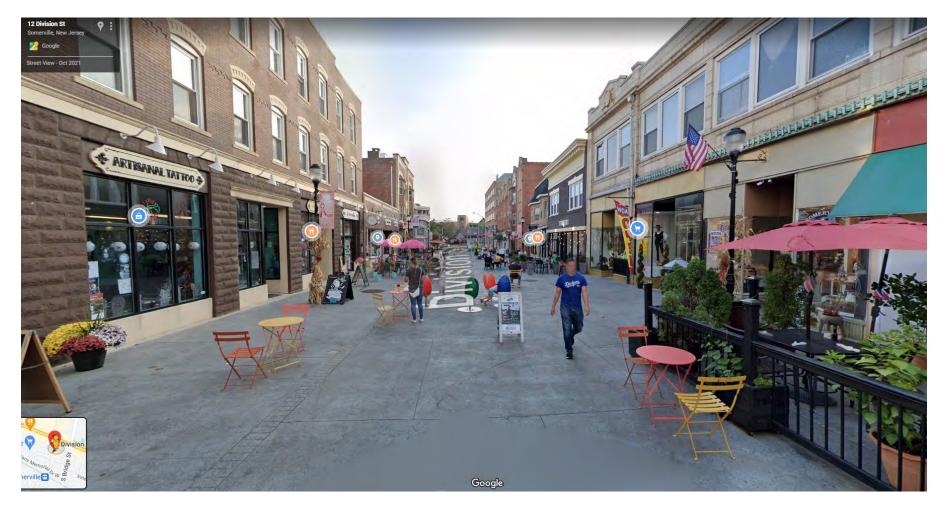






• Who is prioritized here?





• Who is prioritized here?



• Who is prioritized here? Who is comfortable here?







• Who is prioritized here? Who is comfortable here?











Who is prioritized here?

Go to menti.com Type code: 4456 8174

Module 2: Planning & Placemaking

Engagement & Visioning -Planning & Zoning Policies Performance Measures

Community Collaboration

Community-led Planning

P.O.P. Public Owns the Project.



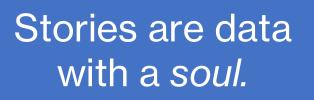
Project for <u>Public</u> Spaces

Engaging the community To plan, develop, and design projects

- Meet with stakeholders and partners
- Benefit from local knowledge and experience









Great Fall Circulation Study Public Meeting

Listen to stakeholders To plan, develop, and design projects

- Overcome skeptics and doubt
- Establish trust and build support
- Explain benefits of new and unfamiliar projects





Collaborating to Expand the Possible

Committees and Boards

Transportation Coordinating Committees Traffic Safety Committees

Complete Streets Committees

Partnerships and Events

Bike Safety Rodeo, Bartle Elementary School in Highland Park

Trail or Treat, Lawrence Hopewell Trail

Demonstration Projects

Henry Hudson Trail - missing link demonstration project - in Keyport



Committees and Boards Chatham Borough Traffic Committee



Partnerships, Popups, and Events



A pilot **parklet installation l**ed to the seasonal conversion of parking spaces on Witherspoon Street in Princeton The **Ride Out for Unity event in Paterson** brought together teens, local bike clubs, and the City's Community Policing Division Volunteers preparing for a demonstration project showing an advisory bike lane and curb extensions on Atlantic Avenue in Collingswood A pilot program with Oonee Pod **bicycle parking station** at Journey Square created an expanded and permanent secure bicycle parking system with Oonee in Jersey City

City of Paterson Ride Out for Unity

























Define Vision and Goals

Montclair, NJ:

"A commitment to creating a comprehensive, integrated, connected street network that safely accommodates all road users of all abilities and for all trips."





Hoboken, NJ :

"...the full integration of all modes of travel in the design of streets and highways will increase the...efficiency of the road network, reduce traffic congestion by improving mobility options, limit greenhouse gases, improve air quality, and enhance the general quality of life."

Module 2: Planning & Placemaking

Engagement & Visioning **Planning & Zoning** Policies Performance Measures

Leveraging Plans & Ordinances

Leverage Investments in Planning Plans, Studies, Guides, Ordinances

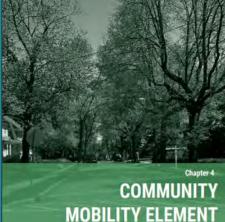
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Great Falls Circulation Study Passaic County, New Jersey

- Vision Zero Plans discrete actions and strategies to eliminate traffic deaths.
- Bicycle and Pedestrian Master Plans municipal and county plans, focused on safety, mobility, equity, and access.
- Corridor and Area Plans prioritize capital needs and improvements, i.e. corridors, school access, trails, parking.
- Zoning Ordinances include standards for implementation, enable Complete Streets





Vision Zero: Jersey City

Prioritize Vulnerable Users

- Cost-effective and strategic approach
 - Focus on fatalities and severe injuries
 - High-Injury Network
 - Data-driven approach
 - Prioritizes safety
- Targets areas of greatest need
 - 61% of fatal crashes
 - 55% of all crashes
 - 14% of roadway mileage
 - 31 total roadway miles





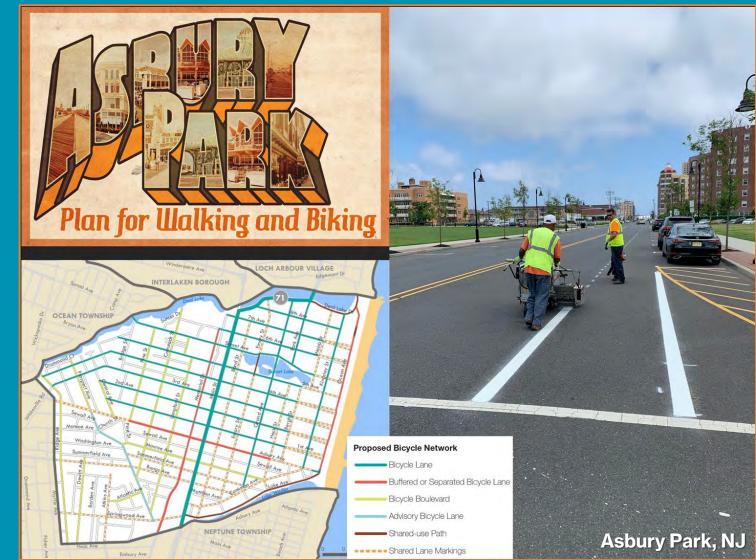


Does your community have a Vision Zero plan?

****Type your answer in the chat box!
 (Yes!, No., Not Sure., Working on it!)

Pedestrian and Bicycle Plans Municipal Master Plan

- Establish rationale for action
- Safety is a shared responsibility
- Low-cost local projects and strategies
- Enhance capital projects with safety improvements



Pedestrian Safety and Mobility Multilane State Highway – Main Street







Corridor and Subarea Plans Data-driven analysis identified need for Road Diet Concept



After construction

Course Correction: Just Do it!

SPRUCE STREET BRIDGE PROJECT

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• The Spruce Street Bridge Project included the rehabilitation of the bridge; upgrades at the intersection of Wayne Ave. & Totowa Ave. and improvements along Front Street Repaved and restriped the roadway between Sidewalk replacement; additional street parking; ADA-compliant curb ramps; new traffic signals; added one way traffic pattern; new & improved 5.8 Million (exact number to be determined after final change order add/deletes), fon Costs funded by NJDOT Local Bridge Future Needs Grants (2014, 2015, 2017, 2018, and 2020)





Has your community/county modified an infrastructure project to include Complete Streets elements?

****Type your answer in the chat box!
 (Yes!, No., Not Sure., Working on it!)

The Zoning Ordinance

- Sidewalk Standards
- Bicycle Parking
- Loading Zones
- Pedestrian Circulation in Off-Street Parking
- Street Tree Requirements
- Micromobility/Curb Management
- Stormwater Regulations

Case Example: Borough of Metuchen

 Amended design standards and sidewalk requirements in Land Development Ordinance



The Power of Land Development Review Lawrence Township, NJ



2013

2021 (constructed in 2015)





Do you have zoning ordinances that support Complete, Green, & Equitible Streets during development review?

****Type your answer in the chat box! (Yes, No, I wish...)

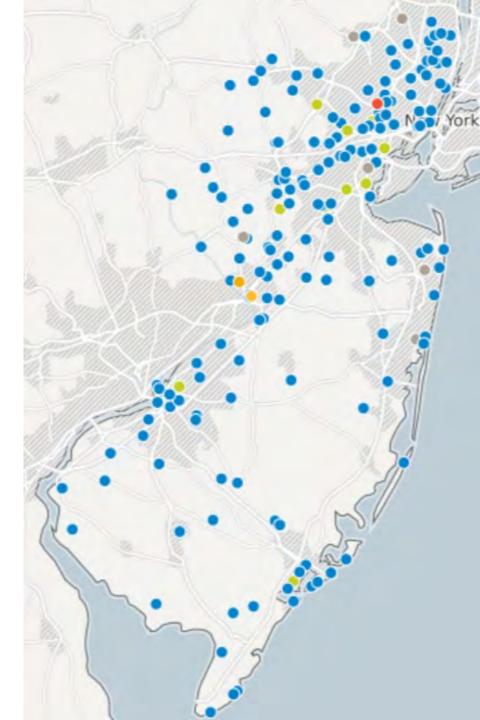
Module 2: Planning & Placemaking

Engagement & Visioning Planning & Zoning **Policies** Performance Measures

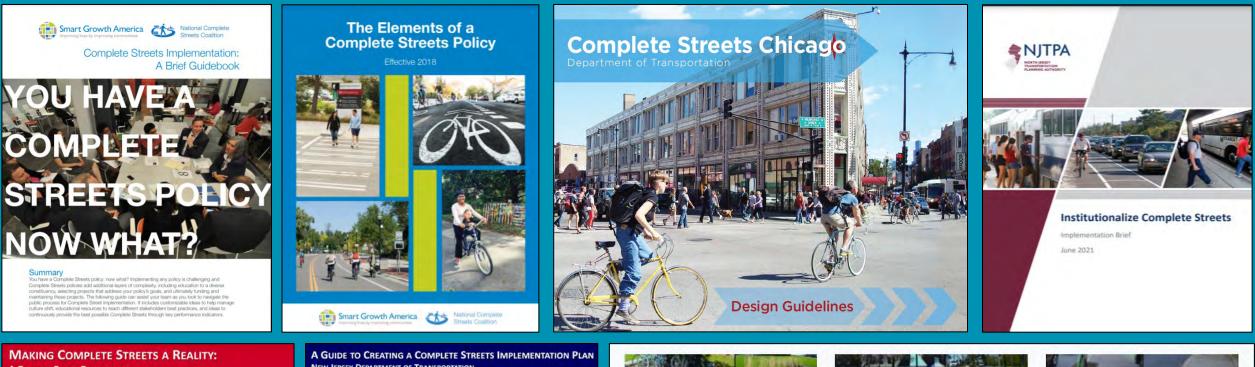
Complete Streets Policies

CS policy adoption

- NJDOT policy adopted in 2010
- 181 policies as of 3/2022 (173 local; 8 county)
- NJ has second most policies of any state
- About 1/3 of municipalities and counties have policies
- These jurisdictions cover more than half of the state's population



No shortage of guides and case studies







NEW JERSEY DEPARTMENT OF TRANSPORTATION





Complete Streets Case Study: Asbury Park, New Jersey (2018)



2018 Complete Streets Case Study Mercer County, New Jersey



Complete Streets Case Study: Mercer County, New Jersey (2018)

2017 Complete Streets Case Study



Complete Streets Case Study: Morristown, New Jersey (2017)

CS policy best practices Complete & Green Streets For All (2019)



- Comprehensive New Jerseyspecific guide
- 10 key elements of a model policy
- Emphasizes equity, sustainability, and resilience
- Model policy adoption provides municipalities with Sustainable Jersey points



Elements of CS policy

- 1. Defines local Vision & Intent
- 2. Benefits all users equitably
- 3. Applies to all projects
- 4. Sets clear and accountable procedures for exemptions
- 5. Requires **coordination** between government and partner agencies
- 6. Directs the use of best practices **design** criteria, guidelines, and checklists
- 7. Considers the community's land use and transportation needs
- 8. Establishes performance standards
- 9. Provides criteria for prioritizing and implementing Complete Streets
- 10. Includes specific **next steps** for policy implementation

CS Checklist

- Practical tool used to identify CS elements and deficiencies early in a project's lifecycle
- •Used to gather CS data to ensure project achieves relevant CS goals
- Applicable to land development applications, roadway projects, including maintenance



| EM TO BE ADDRESSED | CHECKLIST CONSIDERATION | YES | NO | N/A | REQUIRED DESCRIPTION |
|--------------------|---|-----|----|-----|----------------------|
| STREET CLEANING | Does the street cleaning include the shoulder or roadway to the curb? | | | | |
| | Are the sidewalks cleaned on a regular basis? | | | E | |
| SNOW REMOVAL | Does snow plowing block or push snow into crosswalks, blocking clear access? | | | 1 | |
| | Does the Municipality or County shovel out crosswalks or enforce residential requirements to clean snow from the crosswalk right of way? | | | | |
| RE-STRIPING | Can additional road uses be supported and/or safety improved by reconfiguring lanes within the same roadway width? Examples include (but are not limited to): • Lane narrowing • Lane reconfiguration • Lane reduction (road diet) • On-street bicycle parking • High-visibility crosswalks • painted curb extension, etc. | | | | |

Exemptions

Monmouth County Complete Streets Policy allows exemptions for Scenic Byways and low volume roadways (<1,000 AADT)

Clear criteria, clear process and clear documentation.







Does the community you live in have a Complete Streets Policy?

How to advance CS in your community

- Adopt/review/update CS policy
- Develop or update CS Checklist
- Establish CS Committee or similar entity
- Review and clarify roles, responsibilities, and procedures related to CS implementation
- Track success and report annually
- Document CS integration with project development/design
- Document and publish CS exceptions

Module 2: Planning & Placemaking

Engagement & Visioning Planning & Zoning Policies **Performance Measures**

Measuring Success

Performance Measures

• Traditional Measures

- Bridge and pavement conditions
- Intersection performance
- Level of service
- Vehicle throughput
- Queue length
- Vehicle delay
- Asset management
- NJDOT Management Systems





Performance Measures

Complete Measures

- Crash reduction
- Speed reduction
- Economic development and job creation
- Multimodal LOS

• Bicycle Level-of-Traffic-Stress (LTS)









Plans & Practices



Benchmarks/ Reporting i.



Model Policy: Accountability

- a. Mileage by of new and existing **bicycle** infrastructure including in **Priority Communities**
- b. Linear feet (or mileage) of new and existing pedestrian infrastructure
- c. Number of new and existing ADA-compliant infrastructure
- d. Number of new street trees
- e. Number of green street practices (e.g., rain gardens, bioswales, permeable pavement)
- f. Number of pedestrian and bicycle lighting improvements.
- g. Bicycle and pedestrian counts
- h. Commute mode percentages (e.g., drive alone, carpool, transit, bicycle, walk)
 - The number and percentage of designated transit stops accessible via sidewalks and curb ramps
- j. The number, locations, and causes of collisions, **injuries**, and **fatalities** by each mode of transportation
- k. The percentage of children walking or bicycling to school

Measuring Safety Multilane Arterial Roadway

- Road Diet Project
- Valley Road, Wayne Township
- Added bicycle lanes and clearly marked pedestrian crossings
- Crashes reduced by one-half with FSI crashes reduced by 60%



Measuring Economic Benefits South Park Street, Montclair, NJ



Measuring Vision Zero



Where the DOT has made changes, fatalities are down 34%.

Action Plan



Bronx

Macombs Road, University Avenue to Jerome Avenue

BEFORE





AFTER

I Crosswalks Add crosswalks where pedestrians want to cross

Pedestrian Safety island Shorten the crossing distance Extend Medians Build out existing medians to tighten up the intersection and create a continuous path for pedestrians

On Macombs Road, redesign led to 41% fewer crashes with injuries.

City of New York

Measuring (Shared) Mobility Asbury Park, NJ

PILOT PROGRAM

715,169

ELECTRIC

TOTAL TRIRS

SCOOTER SHARING



5,806 n: 12.2 minutes... stance: 0.51 miles ps per scooter per day: 4.7

12013

IF RINERS

Median Trin Dyratic **Median Trip Di** Average # of tri

operated by

Zaaster

Measuring Place Value

Spaces



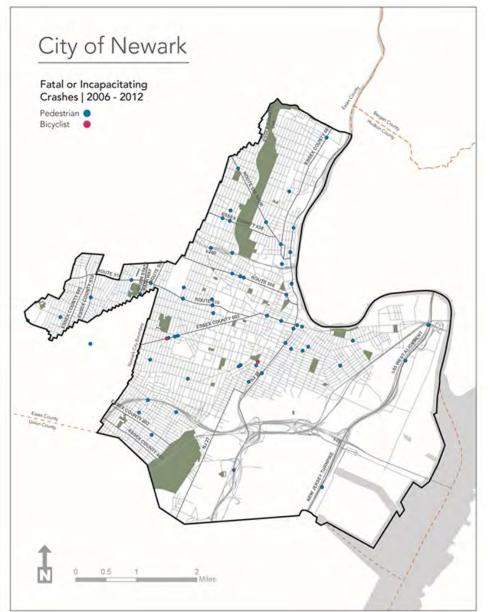
Photo credits: Project for Public Spaces

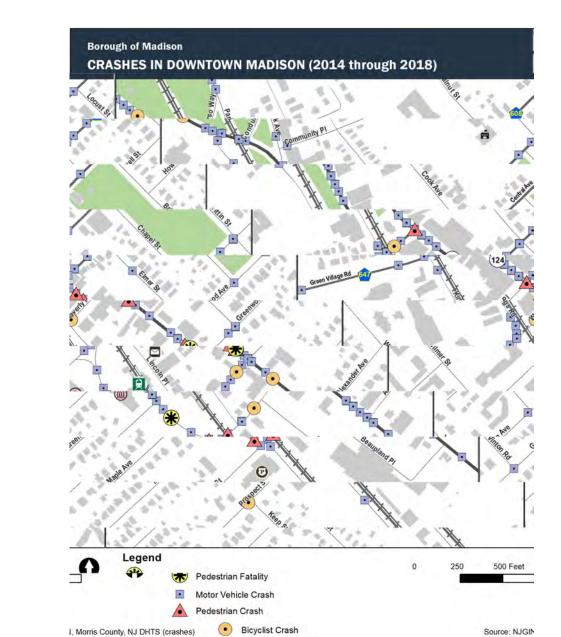
Planning for Safety and Vulnerable Users Prioritize Areas of Safety Risk

- Crash mapping and analysis
- Hot spot crash locations
- High Injury Networks
- NJDEP Environmental Justice Mapping Tool

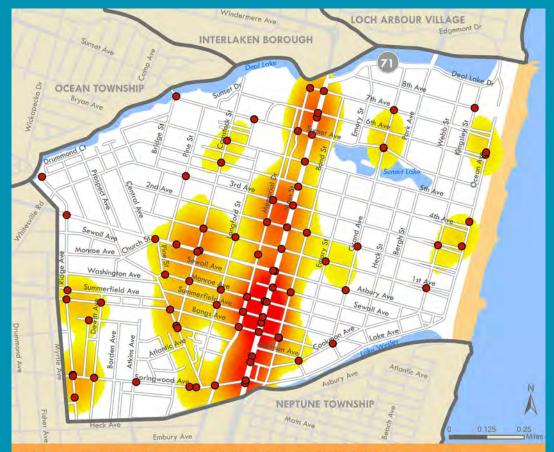


Crash Mapping





Crash Hot Spots



MAP 3 - BICYCLE CRASH LOCATIONS AND CONCENTRATIONS (2011-2016)



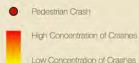
High Concentration of Crashes

Low Concentration of Crashes

The largest concentration of bicycle crashes can be seen along Main St, especially in the southern section of the City. While ridership along the boardwalk and near the waterfront is substantially higher than elsewhere in the City, the same concentration of bicycle crashes are not seen in these areas.



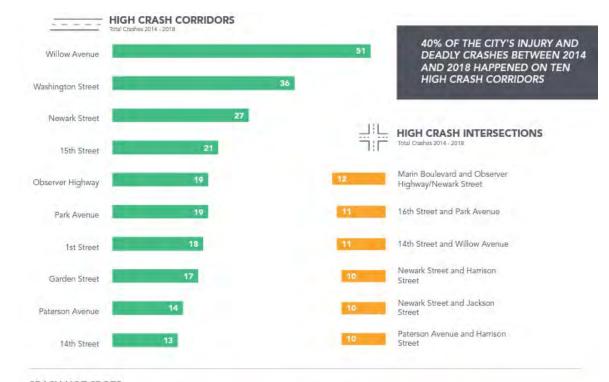
MAP 4 - PEDESTRIAN CRASH LOCATIONS AND CONCENTRATIONS (2011-2016)



The largest concentration of pedestrian crashes can be seen along Main St, with additional clusters along Asbury Ave and Grand Ave. Crash concentrations are located along the roadways with the highest volumes and vehicle travel speeds in the City.

High Injury Networks Prioritize Risk and Vulnerable Users

- Cost-Effective
- Strategic Approach
- Target Safety Improvements to **Greatest Need**
 - 40% of all serious crashes
 - 10 high-crash corridors
 - 51 crashes on one street





n crashes occur in census tracts where 23% of the eholds are living at 10% or more below poverty level Willow Avenue

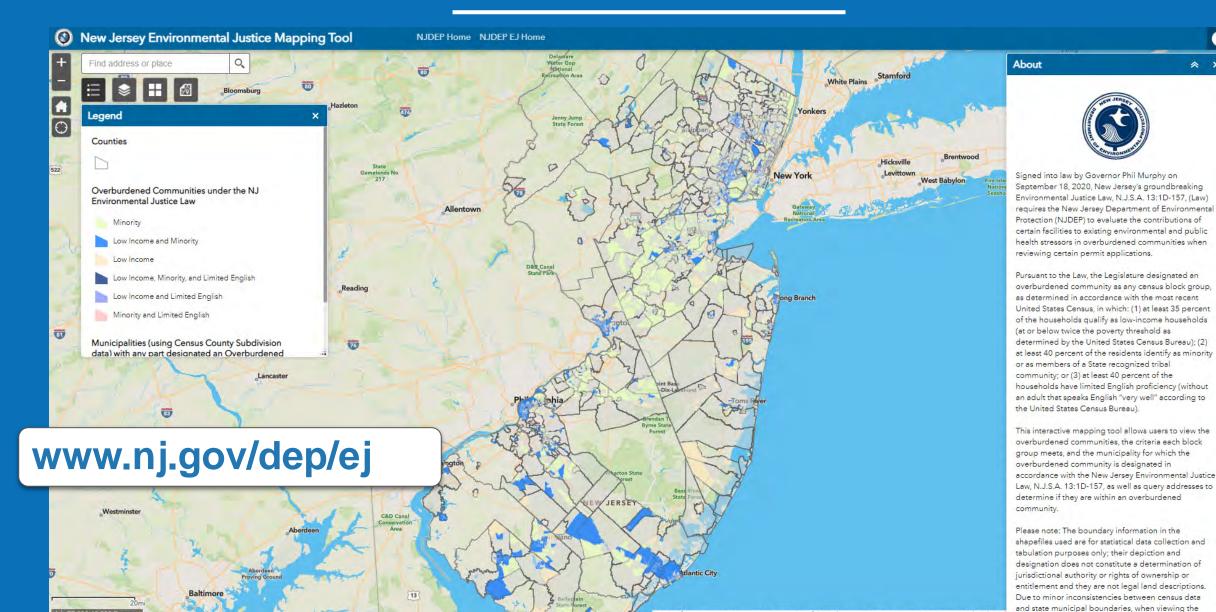


Henderson Street and Observer Highway/Newark Street

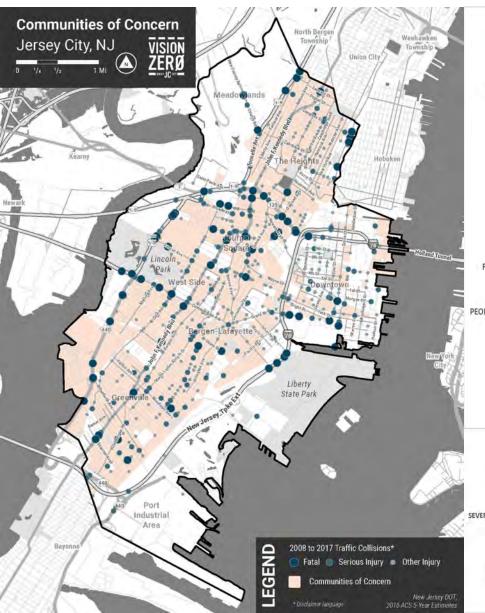


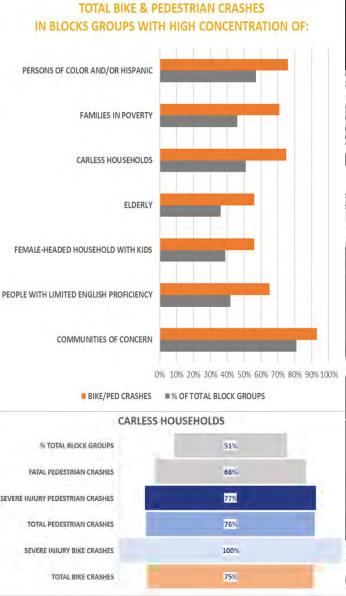
NJDEP Environmental Justice Mapping Tool

6



Safety, Equity, and Mobility







Module 2: Planning & Placemaking



Q&A & a-ha!

Please type your questions into the chat.

Our facilitators will answer them in the chat, or during the remaining presentations and group exercises.





Minutes