2021 NEW JERSEY

SUSTAINABILITY SUMMIT



The Complete and Green Streets Doctor is "In"







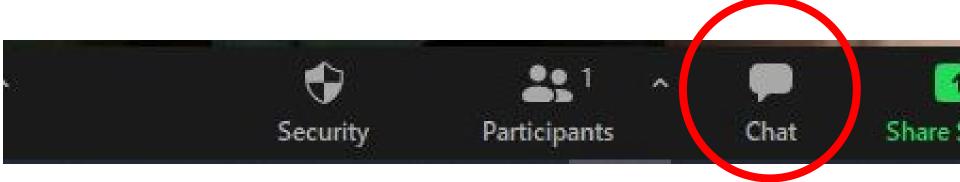




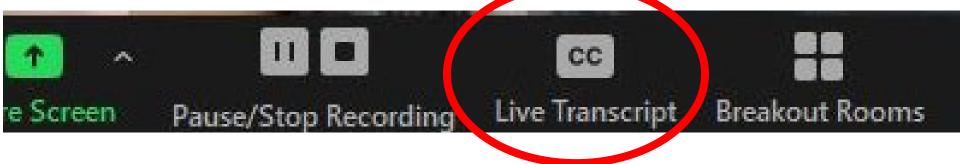
Housekeeping



Please enter your questions and comments in the chat



Click on live transcript if you'd like to see what the speaker is saying





Announcements



- June 6 municipal certification deadline
- June 21 school certification deadline



 \$75,000 in grants for resiliency & environmental stewardship projects in Atlantic City Electric territory (<u>sustainablejersey.com/grants</u>)



Speakers





Leigh Ann Von Hagen, PP, AICP

Senior Researcher & Adjunct Professor Alan M. Voorhees Transportation Center Bloustein School of Planning and Public Policy Rutgers, The State University of New Jersey lavh@ejb.rutgers.edu



Kandyce Perry
Director of Stormwater
New Jersey Future
kperry@njfuture.org



Leigh Ann Von Hagen, AICP, PP
Alan M. Voorhees Transportation Center
Bloustein School of Planning & Public Policy
Rutgers University



COMPLETE AND GREEN STREETS FOR ALL



What are Complete Streets?

- + Complete Streets are designed for everyone
- + Design of Complete Streets is **based on local context**
- + They balance the needs of ...
- + ... ALL MODES, ALL USERS, and ALL ABILITIES ...







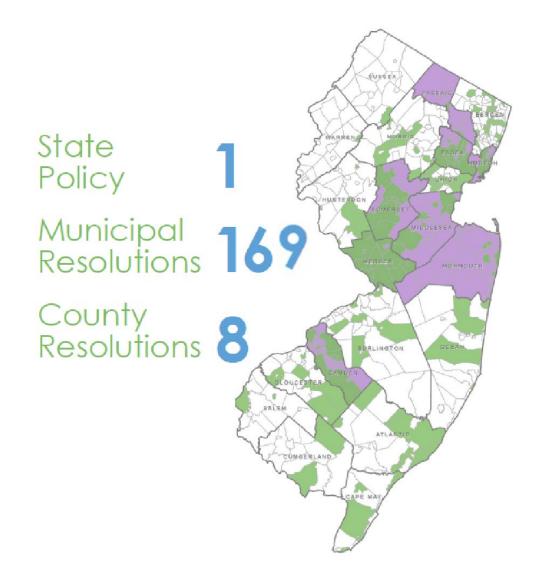








Complete Streets in New Jersey





NJ Pedestrian & Bicycle Fatalities 2018-2020

34% of all motor vehicle crashes

Designated Pedestrian-Bicycle Focus State

FHWA, Pedestrian and Bicycle Safety Focus States and Cities NJ State Police Fatal Motor Vehicle Crash Yearly Reports, 2018, 2019, 2020

Another Poll – Two Questions:

Does your municipality have a Complete Streets policy?

- Yes
- No
- I don't know

Do you think it is important to consider equity in transportation funding

decisions?

- Yes
- No
- Not certain



New Jersey Complete Streets Working Group







www.saferoutesnj.org























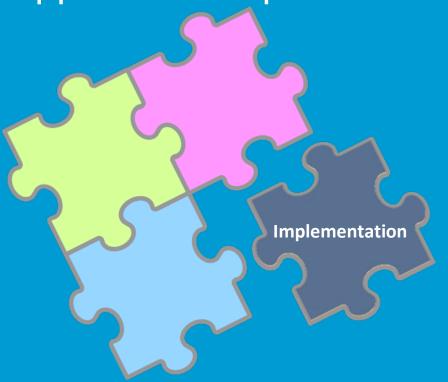








What happened to implementation?



Transportation decision-making includes...



Strong Resolution

Stronger Policy

Strongest Ordinance



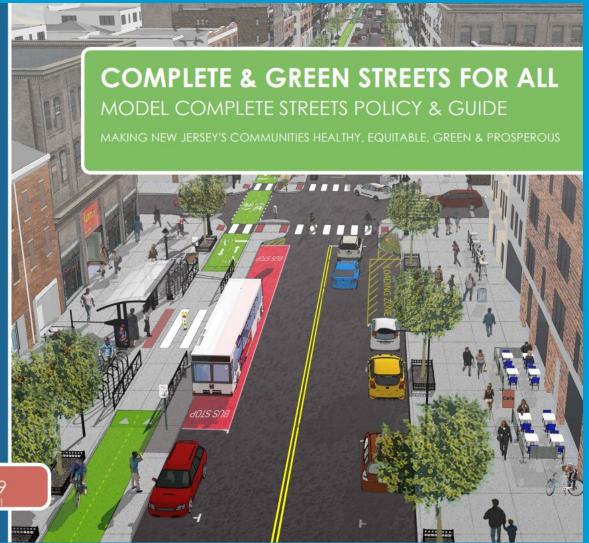




\$ Economy



JULY 2019





Public Health & Safety















WHEREAS, Complete Streets encourage an active lifestyle through increased physical activity, social connectivity, and sense of community belonging





lowering risk of obesity



reducing chronic disease





improving mental health





promoting wellness











WHEREAS, traffic crashes are preventable and the only acceptable number of traffic deaths for my town





















WHEREAS, Complete Streets that incorporate sustainable **Green Streets** design elements











Recycled materials









\$ Economy



Equity











WHEREAS, low- and moderateincome areas, whether in rural, urban, or suburban communities, are typically the least safe for pedestrians and bicyclists, especially for children walking and biking to school





... due to long-standing infrastructure disparities and higher concentration of streets with faster-moving and higher-volume traffic













WHEREAS, procedures should be implemented that ensure fair treatment, equitable funding and resource distribution

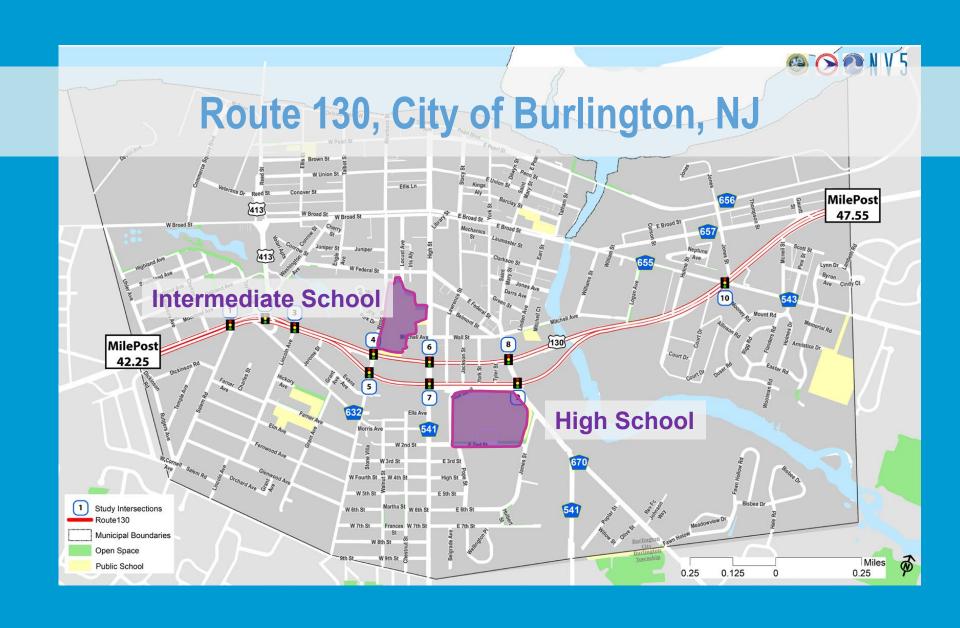




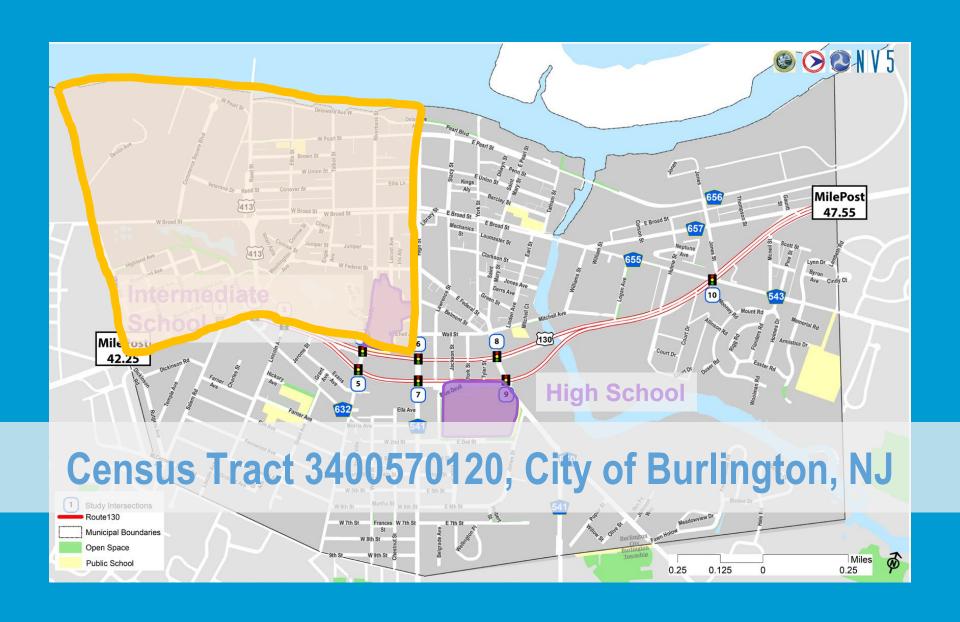


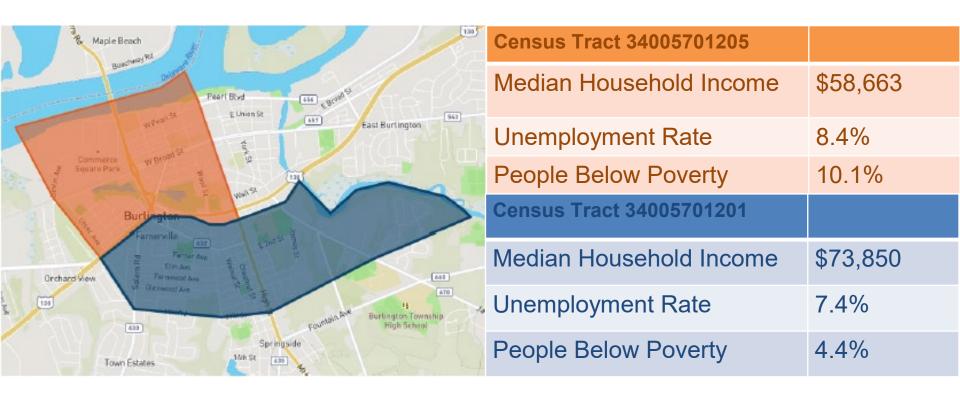


...and meaningful involvement of all communities in all phases from selection, planning, and design to construction and longterm maintenance



Census Tract 34005701201, City of Burlington, NJ MilePost 47.55 MilePost 42.25 **High School** Study Intersections Municipal Boundaries Open Space Public School 0.25 0.125









Model Policy: Accountability







The Council shall establish a

Complete Streets Advisory Body

to

comply with the policy

provide ongoing feedback



Priority Communities



\$ Economy



The term Priority Communities refers to categories of underserved and adversely impacted populations









Priority Communities

- 1. Minority Concentrations
- 2. Low-Income Concentrations
- 3. Other Indicators of Disadvantage:
 - Female Head of Household with Children
 - Persons with Limited English Proficiency
 - Carless Households
 - Elderly Populations/Children
 - Persons with Disabilities
 - Hispanic Populations
 - Other Ethnic Minorities
 - Families in Poverty with Children



Model Policy: Accountability



The Council, Planner and Engineer shall routinely work in coordination with each other and adjacent jurisdictions, and any relevant advisory committees/teams



to ensure consistency with the Municipal Master Plan and Elements and any other existing Plans





Model Policy: Accountability







The Council shall establish benchmarks reflecting the ability of all users to travel safely and conveniently along highways, roads and streets within the agency's jurisdiction



Model Policy: Accountability



Plans & Practices





Complete Streets Checklists

CONCEPT DEVELOPMENT PRELIMINARY ENGINEERING

CONSTRUCTION

MAINTENANCE



Adopt a Complete Streets Policy Institute Complete Streets



Complete and Green Streets for All

Bicycle and/or Pedestrian Improvement Projects

Sustainable Jersey Complete and Green Streets for All Action



Tier	Action	Points
1	Adopt a good Complete and Green Streets for All Policy (resolution or ordinance with min. standards)	10 by resolution 15 by ordinance
2	Adopt a better Complete and Green Streets for All Policy (checklists, advisory committee, training, identify plans to update)	20 by resolution 25 by ordinance
3	Adopt the best Complete and Green Streets for All Policy (entire NJDOT model policy)	25 by resolution 30 by ordinance

*health, equity, & green streets part of every tier

Action Submission Worksheets: Complete Model Policy Adoption Tiers 1, 2 or 3

For Municipalities that Adopted the good Model *Complete and Green Streets policy – Tier 1* in its *entirety* (with no modifications) via resolution or ordinance

TIER 1: Adopt a good Complete and Green Streets Policy through Resolution or Ordinance 10 Points by resolution 15 Points by ordinance			
Municipality Name: County Name:			
Action Submission Date:			
Model Tier 1 Policy in its entirety	Yes	Comments	
On the Sustainable Jersey website for this action please submit:			
Description of Implementation (300-word narrative text box) Include in the description of implementation text box: the date when the policy was adopted by your municipal governing body and state whether the policy was adopted through resolution or ordinance	0		
Upload a signed copy of the municipally adopted Complete and Green Streets policy via Resolution or if the policy was adopted by ordinance, upload a copy of the adopted ordinance.			
Ensure the adoption was within 2 years of the submission deadline			
Uploaded this worksheet - completed			
Reviewed by:		Date:	

Action Submission Worksheets: Complete Model Policy Adoption Tiers 1, 2 or 3

For Municipalities that Adopted the better *Complete and Green Streets Model policy – Tier 2* in its *entirety* (with no modifications) via resolution or ordinance.

TIER 2: Adopt a better Complete and Green Streets policy through resolution or ordinance 20 Points by resolution I 25 Points by ordinance				
Municipality Name: County Name:				
Action Submission Date:				
Model Tier 2 Policy in its entirety	Yes	Comments		
On the Sustainable Jersey website for this action please submit:				
Description of Implementation (300-word narrative text box) Include in the description of implementation text box: the date when the policy was adopted by your municipal governing body and state whether the policy was adopted through resolution or ordinance				
Upload a signed copy of the municipally adopted Complete and Green Streets policy via resolution or if the policy was adopted by ordinance, upload a copy of the adopted ordinance.				
Ensure the adoption was within 2 years of the submission deadline				
Uploaded this worksheet - completed				

Date:

Reviewed by:

Action Submission Worksheets: Complete Model Policy Adoption Tiers 1, 2 or 3

For Municipalities that Adopted the Best Complete and Green Streets Model policy – Tier 3 in its entirety (with no modifications) via resolution or ordinance

TIER 3: Adopt the best Complete and Green Streets policy through resolution or ordinance 25 Points by resolution 30 Points by ordinance			
Municipality Name:	County Name:		
Action Submission Date:			
Model Tier 3 Policy in its entirety	Yes	Comments	
On the Sustainable Jersey website for this action please submit:			
Description of Implementation (300-word narrative text box) Include in the description of implementation text box: the date when the policy was adopted by your municipal governing body and state whether the policy was adopted through resolution or ordinance			
Upload a signed copy of the municipally adopted Complete and Green Streets policy via resolution or if the policy was adopted by ordinance, upload a copy of the adopted ordinance.			
Ensure the adoption was within 2 years of the submission deadline			
Uploaded this worksheet - completed			
Reviewed by: Date:			

Only if updating an existing policy or Modifying the NJDOT Model Complete & Green Streets policy



Action Submission Worksheets: Update to an existing policy or modifications to the model policies – Tiers 1, 2, and 3

POLICY UPDATE OR MODIFICATION SUBMISSION WORKSHEET

For Municipalities that are <u>updating an existing</u> policy or <u>modified</u> the Model Complete and Green Streets policy and adopted it via resolution or ordinance. -

Use this worksheet and checkboxes below to review an existing or modified policy and resolution or ordinance to ensure it meets the action requirements and to identify which tier applies. This worksheet outlines the minimum required statements for the policy adopted by resolution When reviewing your submission: Note items a) - k) are often included in the Complete and Green Streets resolution while items 1)-13) are often included in the Complete and Green Streets policy. All of these elements must be included in any adopted ordinance. Municipality Name: County Name: **EQUIVALENT** TO TIER 1: A Submission Date: good Complete Check the boxes that apply and upload this worksheet as part Yes Comments and Green of your submission. Streets Policy Ensure the adoption was within 2 years of the submission deadline 10 Points by resolution Complete and Green Streets resolution: I 15 Points by To receive points for the resolution - the resolution is required to ordinance include language to address each of the following check box topics: Your policy a) A definition of Complete and Green Streets and a statement that includes the a Complete and Green Streets approach is a priority for your goals municipality (by name); and statements for

Need Help?

Pre-Adoption Review

Draft Complete and Green

Streets Policy

Email srts@ejb.rutgers.edu



Sustainable Jersey Bicycle and/or Pedestrian Improvement Projects Action



Tier	Action	Points
1	Municipalities that install short-term improvements for bicyclists and pedestrians	10
2	Municipalities that install permanent improvements for bicyclists and pedestrians	20
Bonus 5 pts	nermanent improvements that address or	



Complete Streets Checklists

Submit completed project checklists





CONSTRUCTION

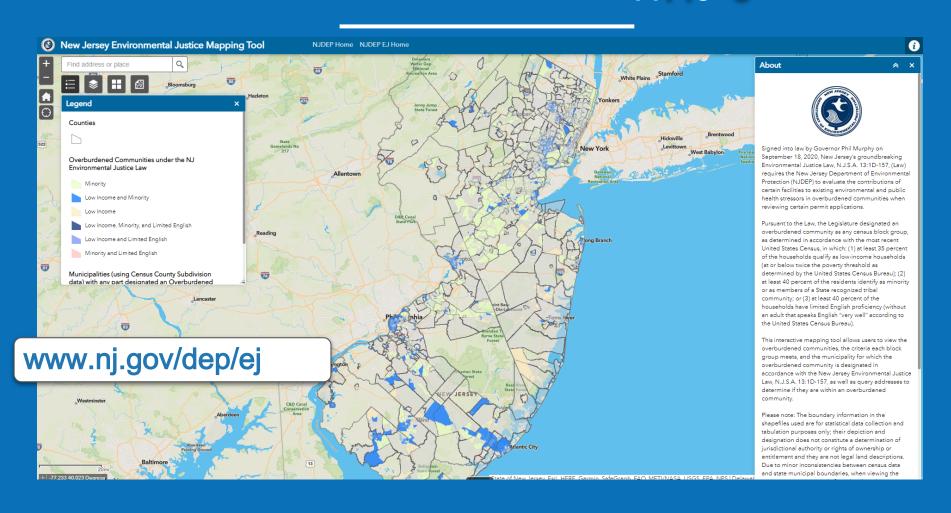
Bicycle and/or Pedestrian Improvement Projects Submission Worksheet (Please fill out both pages – completely - and upload as part of your action submission)

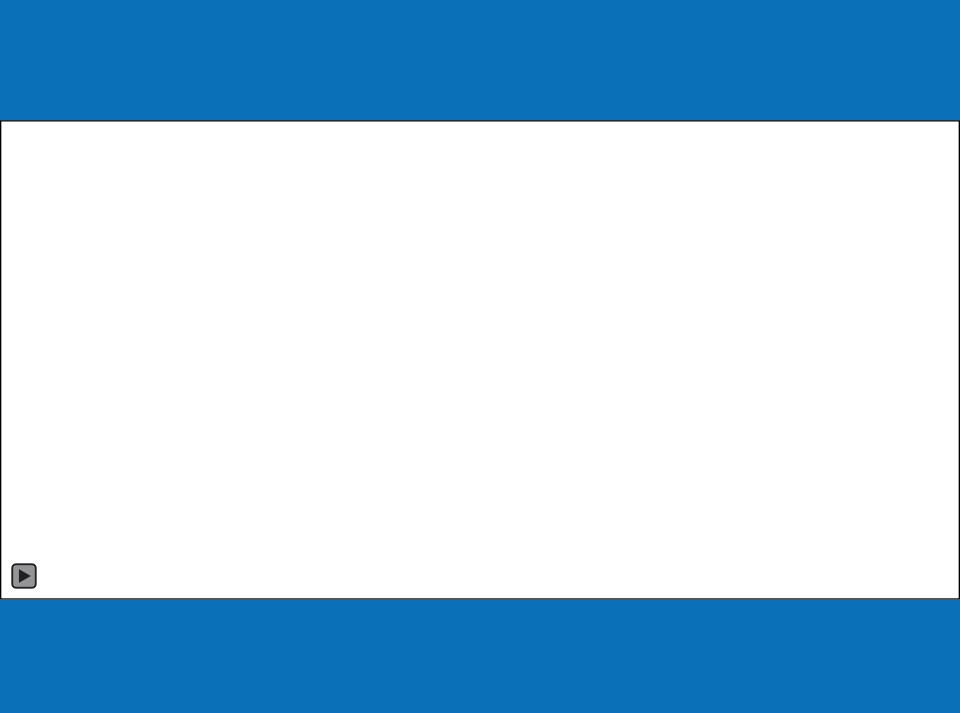
Project Identification:		Use the space below to provide the Information or
,		provide comments to address the item:
Municipality:		
County:	Yes	
Date Project Installed:		
Project Name or Title: Provide name for project as	Yes	
used and referred to locally.		
Project Location: Provide name of roads or corridors	Yes	
involved in the project and identify if any roads are not		
under municipal jurisdiction		
Project Type: (check boxes)		
Short-Term (10 pts):		
☐ Ciclovia or Open Streets Event		
☐ Demonstration project		
Other (describe)		
Long-Term (20pts):		
☐ Sidewalk changes - width or other		
□ Sidewalks and street crossings		
☐ Stormwater management		
 Street trees as part of road project 		
☐ Traffic calming		
☐ Travel lane changes	Yes	
 Road diet - allocation of roadway 		
☐ Bicycle lane		
 Intersection improvements - curb extensions, roundabouts 		
☐ Installation of beacons		
Greenway trails		
☐ Streetscape improvements		
☐ Sidewalks with street crossings		
 Other (describe in column to the right) 		
Priority Community Bonus (5 pts)		
Addresses need of a Priority Community		
☐ Found in a Priority Community		
Map: Upload a copy of a map of the project area.	Yes	

D		Use the space below to briefly answer each of the
Project Benefits:		questions.
Priority Communities: If you are applying for Bonus	Yes	questions.
Points related to projects in or addressing the needs of		
Priority Communities, please describe process used to		
identify your Priority Communities and how your		
improvement project benefited the Priority Communities.		
Describe who benefits from the project – e.g. children,	Yes	
seniors, people disabilities, ethnic or minority groups,		
families in poverty.		
Describe what areas of the community benefit from the	Yes	
project – e.g. one neighborhood, or entire community.		
Describe the connectivity benefits if applicable – e.g.	Yes	
connection to regional bicycle or pedestrian network(s);		
neighborhoods, parks, libraries, schools, business districts and/or other locations.		
and/or other locations.		
Describe any additional project benefits (in the column on	Yes	
the right.		
Project Completion: (project installation must be		Describe the information that is being submitted:
completed in order to be awarded points)		
Before and after images of the project - drawings,	Yes	
photographs, online google earth historical imagery, etc.		
Please label the images to orient a viewer who may not be	"	
familiar with your municipality. (We recommend if you		
need multi-images to upload them in one document due to		
submission limitations)		

Map: Upload a copy of a map of the project area.	Yes	
Project Benefits:		Use the space below to briefly answer each of the questions.
Priority Communities: If you are applying for Bonus Points related to projects in or addressing the needs of Priority Communities, please describe process used to identify your Priority Communities and how your improvement project benefited the Priority Communities.	Yes	
Describe who benefits from the project – e.g. children, seniors, people disabilities, ethnic or minority groups, families in poverty.	Yes	
Describe what areas of the community benefit from the project – e.g. one neighborhood, or entire community.	Yes	
Describe the connectivity benefits if applicable – e.g. connection to regional bicycle or pedestrian network(s); neighborhoods, parks, libraries, schools, business districts and/or other locations.	Yes	
Describe any additional project benefits (in the column on the right.	Yes	

NJDEP Environmental Justice Mapping Tool













COMPLETE & GREEN STREETS FOR ALL MODEL COMPLETE STREETS POLICY & GUIDE

Complete & Green Streets for All is a one-stop resource for adopting and implementing Complete Streets policies and practices. Developed by the NJ Complete Streets Working Group in partnership with the NJ Department of Transportation, it features:

- A state-of-the-art Model Complete Streets Resolution and Policy that can be adopted in full or tailored to meet your needs.
- A set of 4 comprehensive Model Checklists to ensure that Complete Streets are considered throughout the project development process.
- Tools & Resources on a wide range of topics related to Complete Streets policies and implementation.
- Guidance on the many benefits of Complete Streets highlighting Public Health and Safety, Green Streets, Economic Vitality and Equity.

completestreets/resources.shtm

Complete & Green Streets Resources



EIGHT GOOD REASONS TO ADOPT A COMPLETE STREETS POLICY

- Provide an equitable transportation system that serves all
- Shift transportation investments to safer, better-functioning streets, gradually creating Complete Streets networks and saving money by reducing the need for costly retrofits.
- Provide more transportation options and reduce traffic congestion, increasing transportation network capacity.
- Improve air quality and reduce localized flooding by installing green stormwater infrastructure, street trees, and other vegetation.
- oce rates of asthma and other respiratory issues by oving air quality through reduced traffic congestion



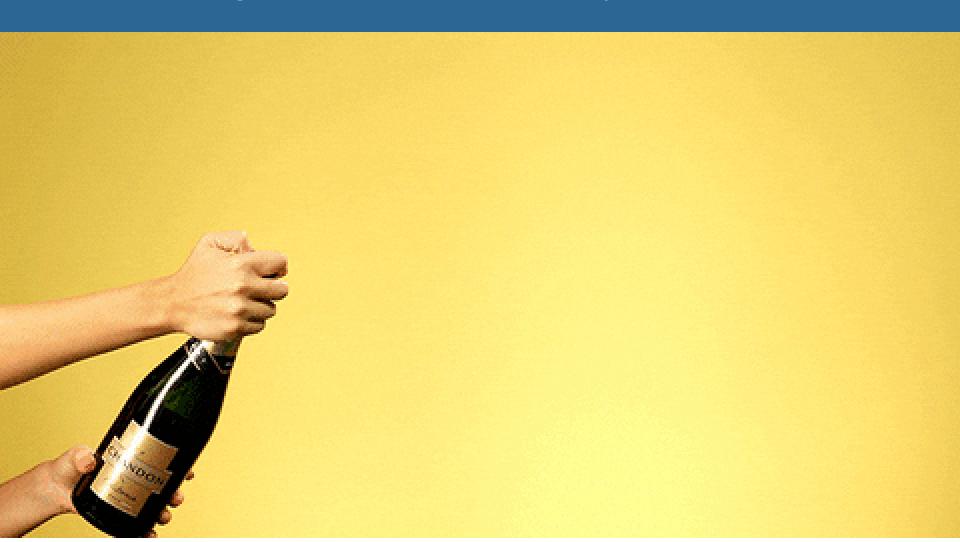


To download the guide visit

www.state.nj.us/transportation/ eng/completestreets/resources.shtm



Congratulations to Early Adopters



Join us at the Safe Routes Academy!









Recognition Program

Sustainable Jersey Actions:

- Safe Routes to School
- Complete and Green Streets for All
- Bicycle and/or Pedestrian Audit
- Bicycle and/or Pedestrian Plan
- Bicycle and/or Pedestrian Improvements

Sustainable Jersey for Schools Actions:

- Safe Routes to School District Policy
- Complete and Green Streets for All
- Bicycle and Pedestrian Safety & Promotion
- School Travel Plan for Walking and Bicycling

www.saferoutesnj.org

Safe Routes Recognition Program

Sustainable Jersey Help Desk





Thank you!







NJ Safe Routes Resource Center Alan M. Voorhees Transportation Center, Rutgers

saferoutesnj.org

Leigh Ann Von Hagen

Sean Meehan

Trish Sanchez

Catherine Bull

Safe Routes Help Desk srts@ejb.rutgers.edu

www.saferoutesnj.org









Another Poll – One Question:

Are you familiar with the term - green streets?

- Yes
- No
- Not sure











Complete and **GREEN** Streets:

Designing Streets for People, Cars, AND Stormwater

2021 Sustainability Summit





















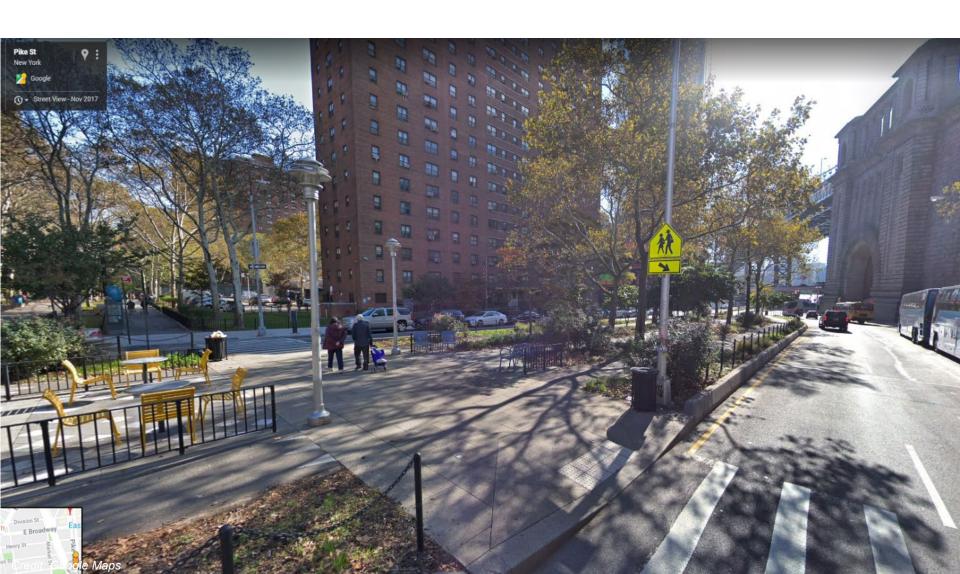




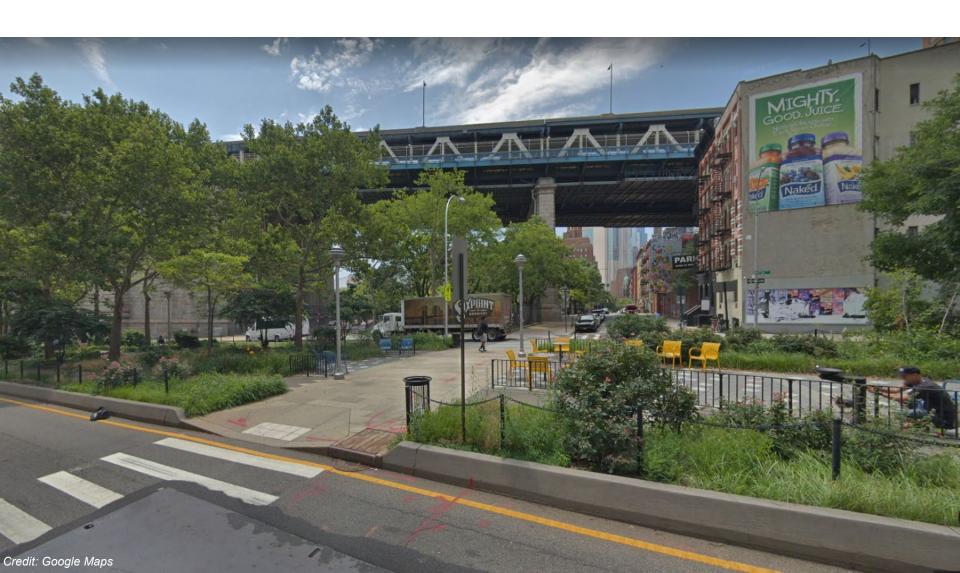




Pike St. Completed



Pike St. Completed



What is a Green Street?

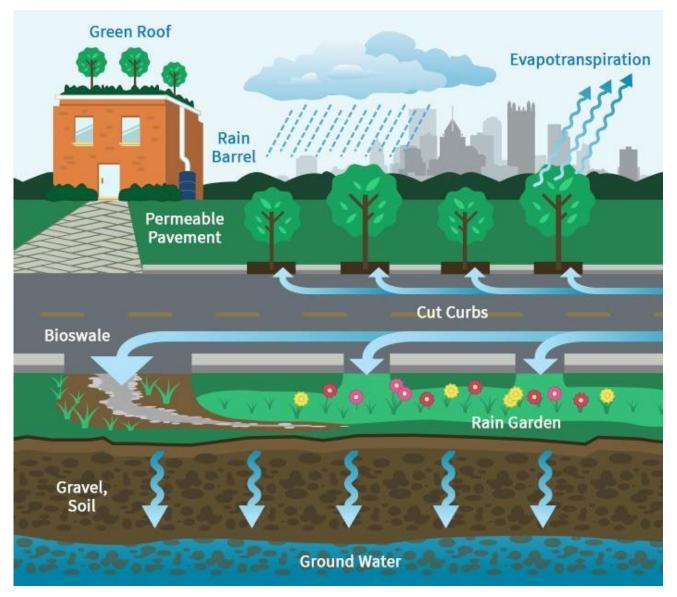
A green street is a **stormwater management** approach that incorporates **vegetation** (perennials, shrubs, trees), soil, and engineered systems (e.g., permeable pavements) to **slow**, **filter**, **and cleanse stormwater runoff** from impervious surfaces (e.g., **streets**, **sidewalks**).

Green streets are designed to capture rainwater at its source, where rain falls. Whereas, a traditional street is designed to direct stormwater runoff from impervious surfaces into storm sewer systems (gutters, drains, pipes) that discharge directly into surface waters, rivers, and streams.

Source: EPA



Wait...What is green infrastructure?



An approach to managing stormwater by either enabling it to infiltrate into the ground where it falls or by capturing it for later reuse.

Green Street Practices:

- Stormwater tree trenches
- Curb bump outs
- Permeable Pavement



How does it work?





Source: USEPA

A growing problem...

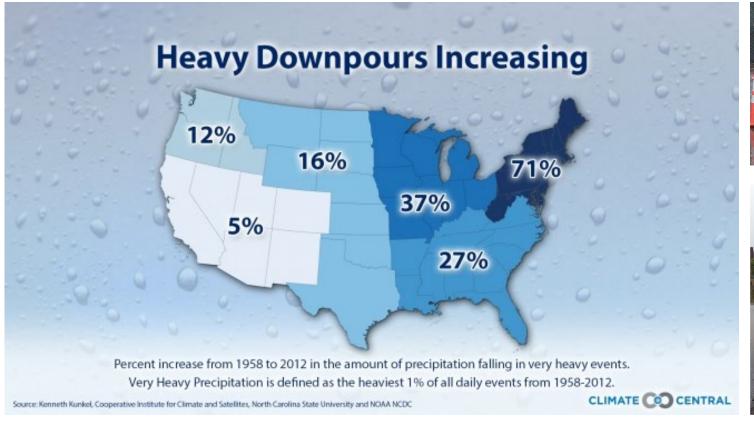
Heavier & more frequent rain

Hore pavement

More pavement

More frequent flash flooding

Street closings Property damage Sewer overflows Damaged infrastructure Impaired waters







Why should streets be green?



Environment: Improved water quality, increased groundwater quantity, cleaner air



Economy: Construction cost savings, Energy costs savings, maintenance costs, higher property values, jobs creator



Society: Public health benefits, safer neighborhoods, slower and safer streets



Streets =
large
percentage
of a
municipality's
impervious
cover





Identifying Green Street Opportunities

- New streets
- Street retrofits
- Capital plans













Broadway Triangle, Camden City
Before









Westfield Ave., Camden City After



Westfield Ave., Camden City After



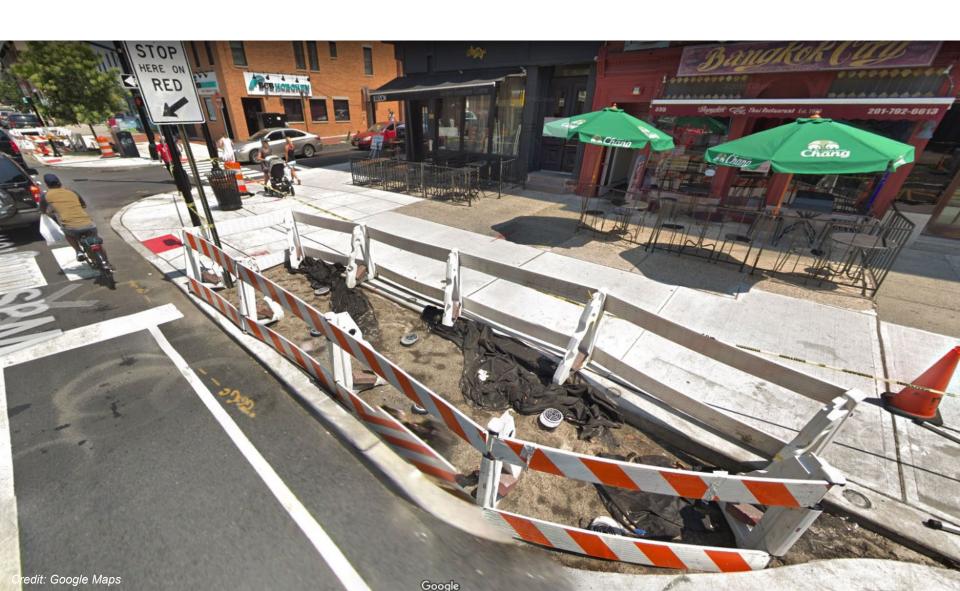


Millburn





Washington Street in Hoboken





Takeaways

- Leverage the private sector to build GI in exchange for incentives.
- Green streets help to reduce combined sewer overflows and aid in traffic calming and pedestrian safety
- Plan green streets in tandem with other street retrofit projects
- Complete street policies and ordinances help to institutionalize green streets beyond resolutions and across administrations
- Green streets can earn Sustainable Jersey points
- Fund green streets through DOT local aid grants

Complete Streets = Green Streets!



A Few Resources

- New Jersey Future
 - New Jersey Green Infrastructure Municipal Toolkit
 - Mainstreaming Green Infrastructure Green Street Resources
- Jersey Water Works Mainstreaming Green Streets in New Jersey Policy Paper
- EPA:
 - Learn about Green Streets
 - A Conceptual Guide to Effective Green Street Design Solutions: Green Streets
 - Managing Wet Weather with Green Infrastructure Municipal Handbook Green Streets
- Water Environment Research Foundation:
 - Creating a Successful Green Street Program
 - Green Streets Basics and Design
 - Promoting Green Streets
- Design Guides:
 - Urban Street Stormwater Guide (National Association of City Transportation Officials)
 - City of Philadelphia Green Streets Design Manual





MAINSTREAMING GREEN INFRASTRUCTURE

A program of New Jersey Future



JERSEY WATER O O WORKS

Smart infrastructure. Strong communities.





INTRODUCING YOUR ONLINE, ONE-STOP GREEN INFRASTRUCTURE RESOURCE

GITOOLKIT.NJFUTURE.ORG



Thank You!

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New Jersey Future

16 W. Lafayette St.

Trenton, NJ 08608

609-393-0008

http://www.njfuture.org

http://www.njfuture.org/MainstreamingGl

http://www.jerseywaterworks.org



Another Poll – One Question:

Do you know of any examples of green streets near where you live or work?

- Yes
- No.
- Not sure
- If you know of a green street please add the location municipality/county - in the chat



PROGRAM UNDERWRITERS

SUMMIT **SPONSORS**



























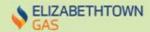


















More Sustainability Summit events to come!





NEW JERSEY SUSTAINABILITY SUMMIT

bit.ly/SustainabilitySummit21

panel discussions, talks, coaching sessions, networking



Thursday, May 20

Join the EVolution!, 10:00am - 11:15am

Register

Show Me the Data!, 12:00pm - 12:45pm

Register

Want a Healthier Community? Go for the Gold!, 1:00pm - 2:15pm

Register

Sustainable Movie Night: A Discussion of Kiss the Ground, 7:00pm - 8:00pm *requires screening the film before this panel discussion

Register



Questions?





Leigh Ann Von Hagen, PP, AICP

Senior Researcher & Adjunct Professor Alan M. Voorhees Transportation Center Bloustein School of Planning and Public Policy Rutgers, The State University of New Jersey lavh@ejb.rutgers.edu



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