New York State Active Transportation & Complete Streets

TRAINING



Active Transportation & Complete Streets



Presented by:



Sponsored by:





This training was supported by the New York State Energy Research and Development Authority (NYSERDA) and the New York State Department of Health(NYSDOH)

• Defining Complete Streets & Active Transportation

TRAINING

- What does Complete Streets Look Like?
- Integrated Transportation Systems
- Establishing a Policy Framework
- Implementing Complete Streets
- Evaluating Success



- objectives
- Understand basic principles of Complete Streets and active transportation
- Illustrate the benefits of Complete Streets
- Discuss what active transportation and complete streets means for your community



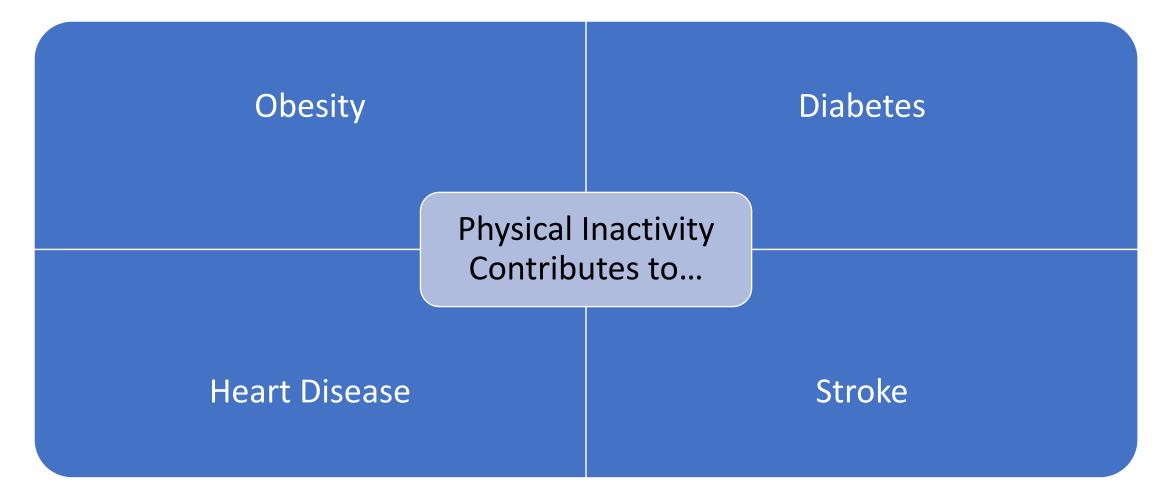
What is "active transportation"?

"...any self-propelled, humanpowered mode of transportation such as walking or bicycling."



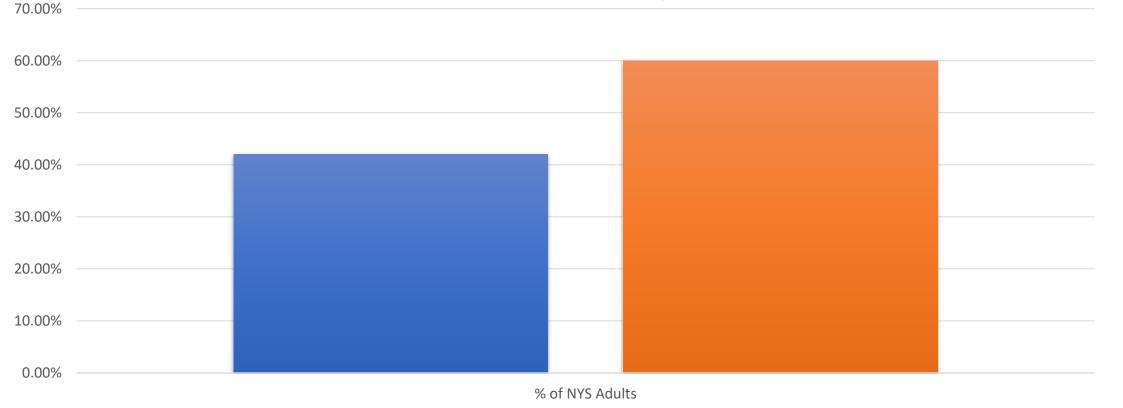
CENTERS FOR DISEASE CONTROL AND PREVENTION







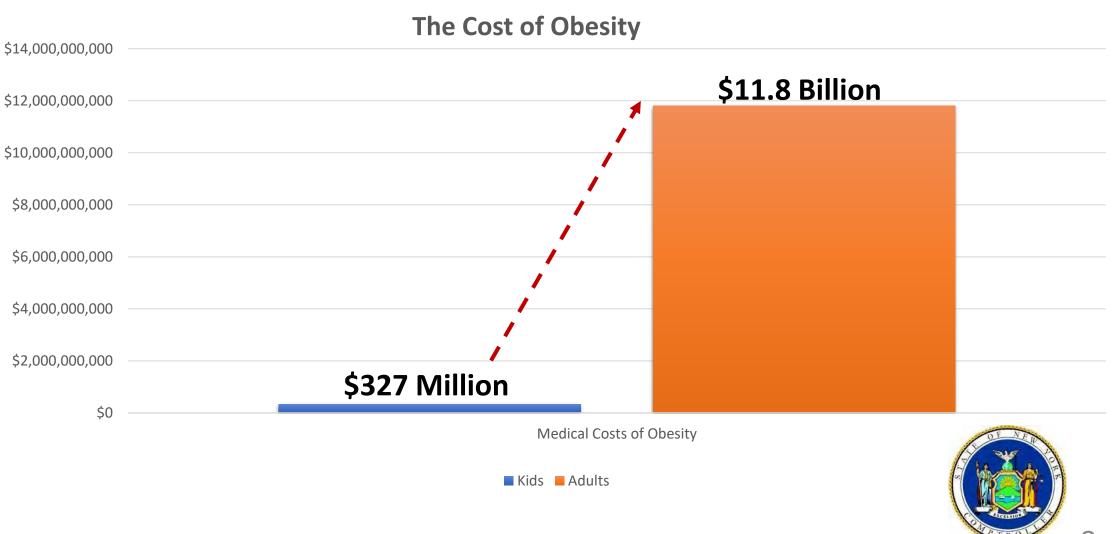
NYS Adults Overweight or Obese



1997 2016



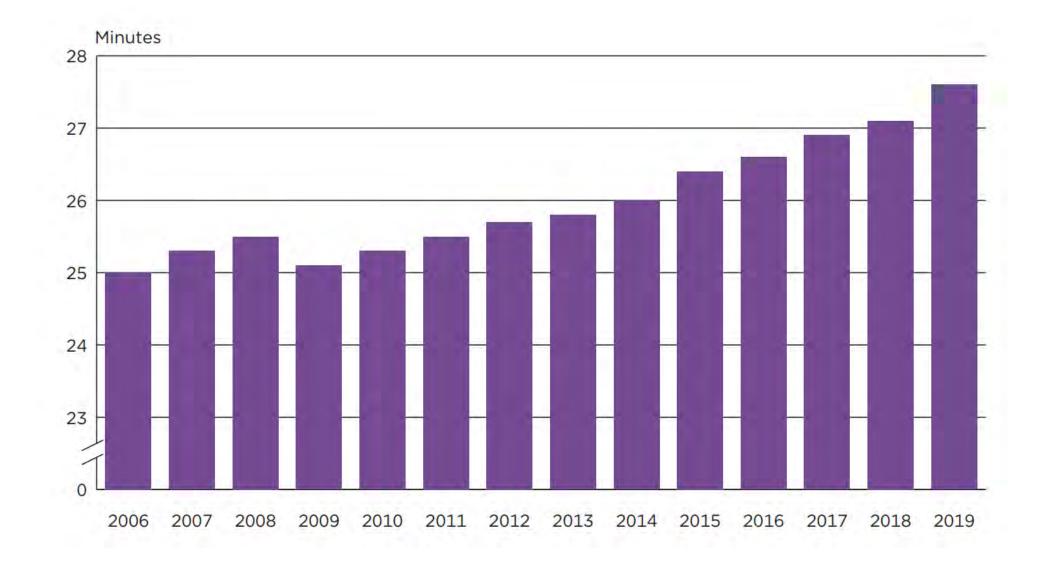




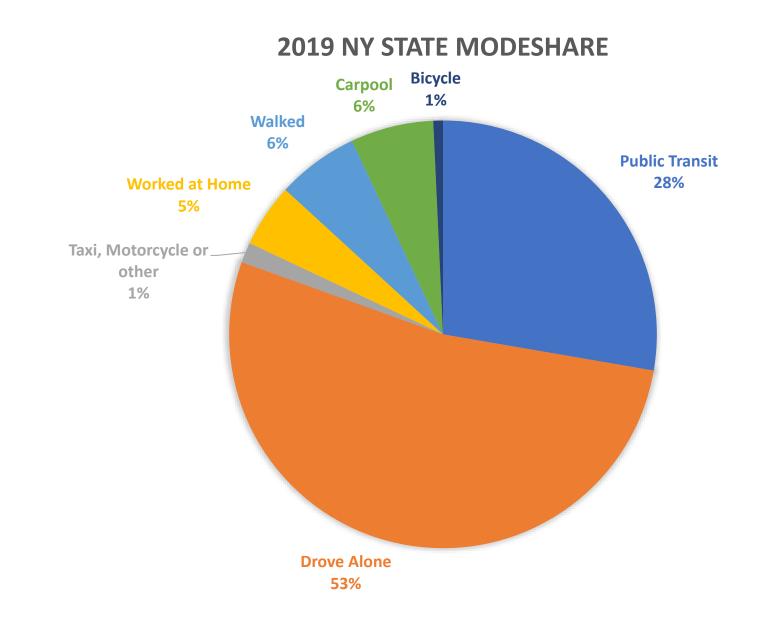
Average Travel Time to Work in the United States: 2006 to 2019



(Workers 16 years and over who did not work from home)



9



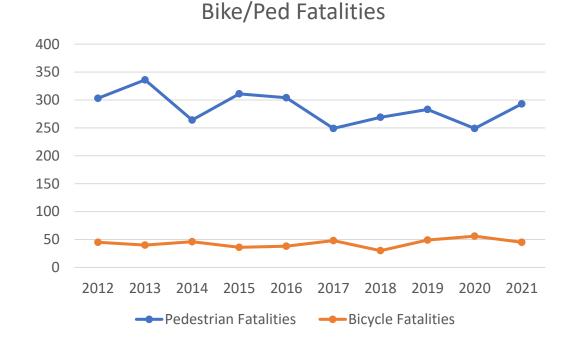
U C S URBAN CYCLING SOLUTIONS

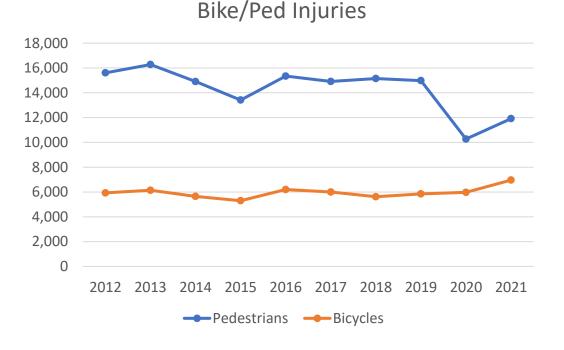




U C S Urban Cycling Solutions

NYS Traffic Safety Data

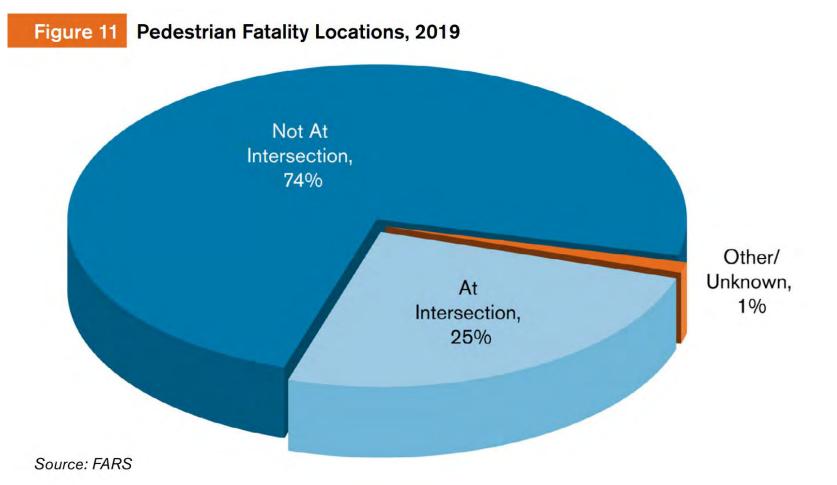




12



Where are pedestrian fatalities taking place?





What are "Complete Streets"?

U C S Urban Cycling Solutions

"[Streets] designed and operated to enable safe access for all users, including pedestrians, bicyclists, motorists and transit riders of all ages and abilities."

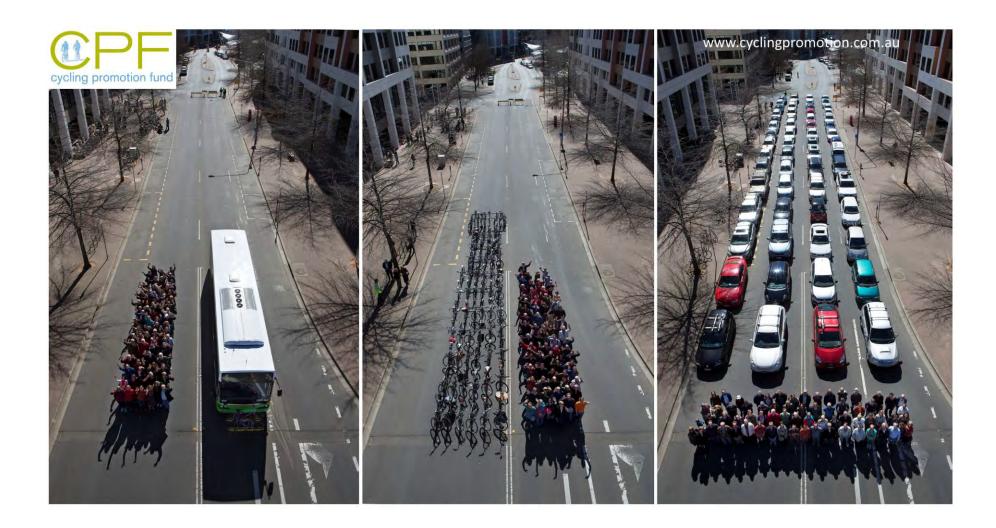




U C S Urban Cycling Solutions



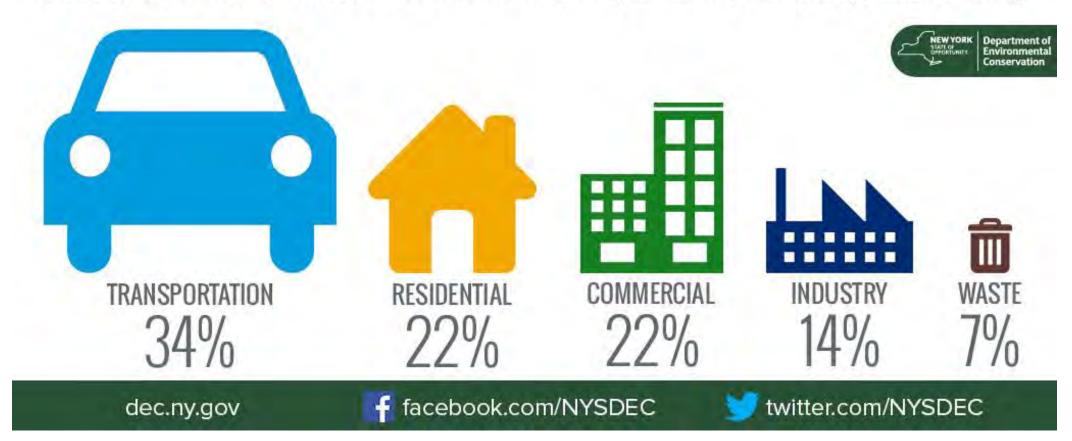
Maximizing Efficiency & Space





What causes climate change?

Most of New York's emissions come from transportation, electricity, and heating.





Placemaking





Freight Mobility









Complete Streets in Action







WHAT DO COMPLETE STREETS LOOK LIKE?

objectives

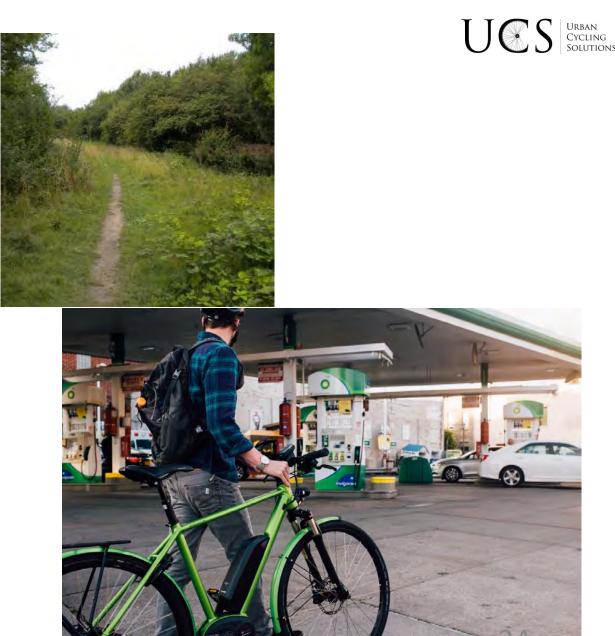
Recognize informal usage indicative of Complete Streets interventions

- Learn how to establish a modal hierarchy
- Introduce common infrastructure treatments
- Apply lessons learned from the walk/bike audit to envision Complete Streets

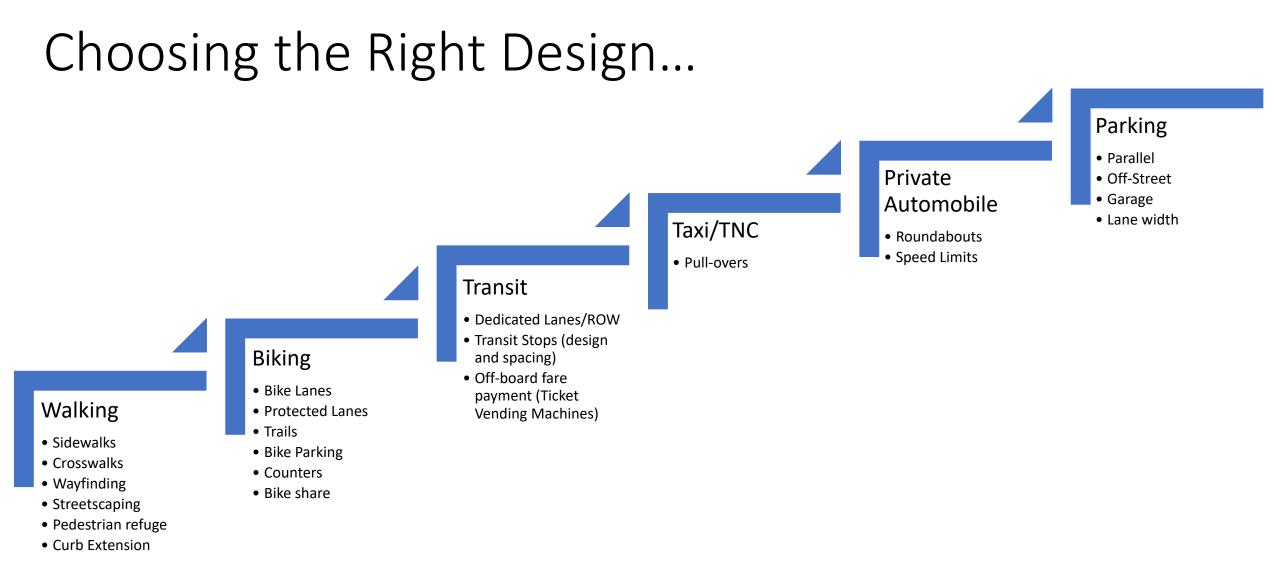
Recognizing Patterns

- Are there goat paths?
- Are bikers taking specific shortcuts?
- Is there community interest in a path or street treatment?
- Where do kids hang out?



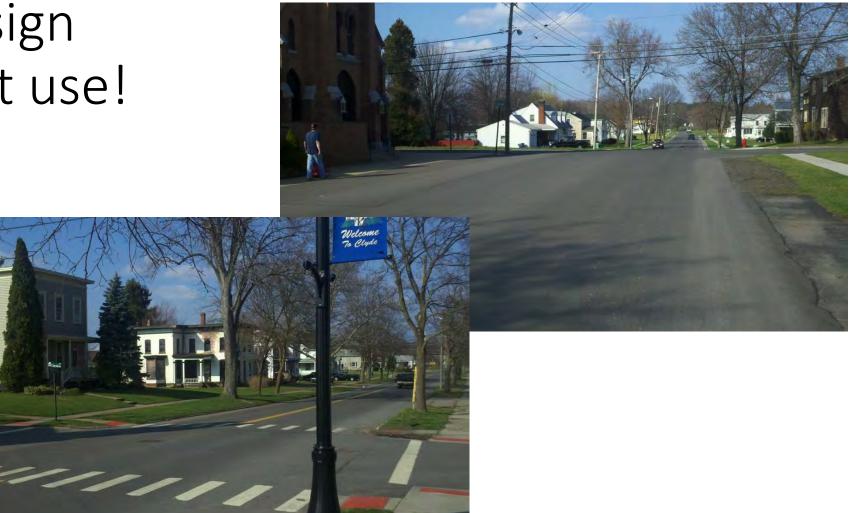


U C S URBAN Cycling Solutions





Correct design invites correct use!



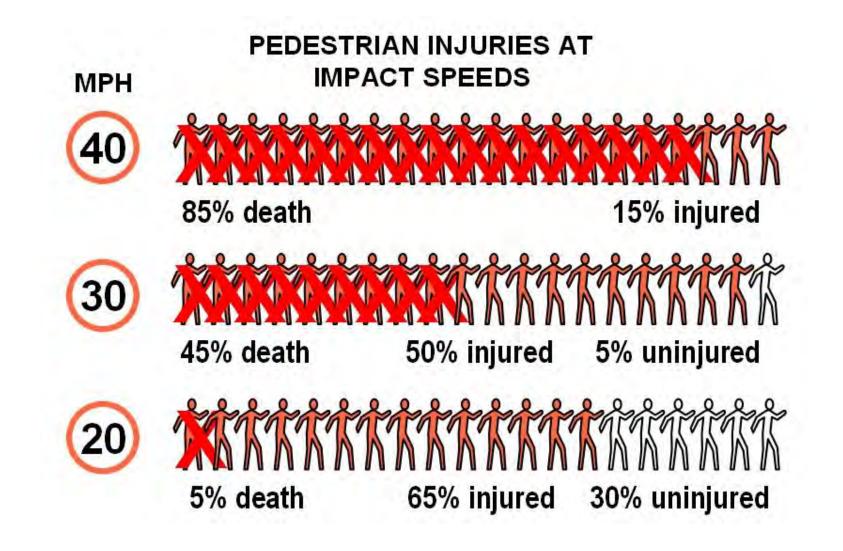








Slowing Down Traffic





Narrow Lanes Reduce Speed





"Road Diet"



Edge Furnishings Throughway Zone Zone Zone Frontage Zone

Sidewalks - Urban





Sidewalks - Rural





Edge Zone

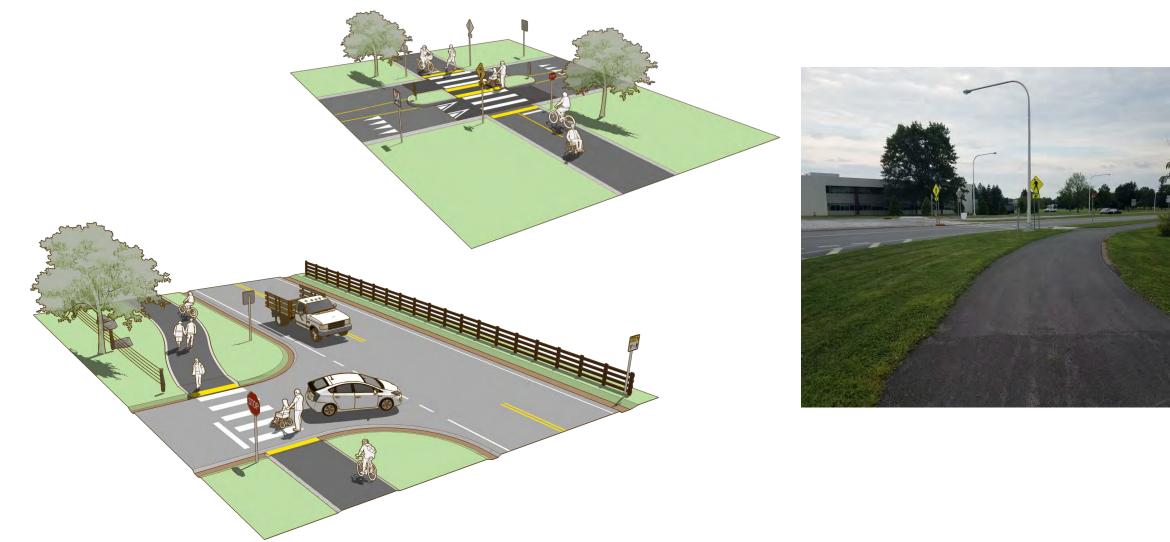
Curb/Planter Zone

Frontage Zone

Throughway Zone

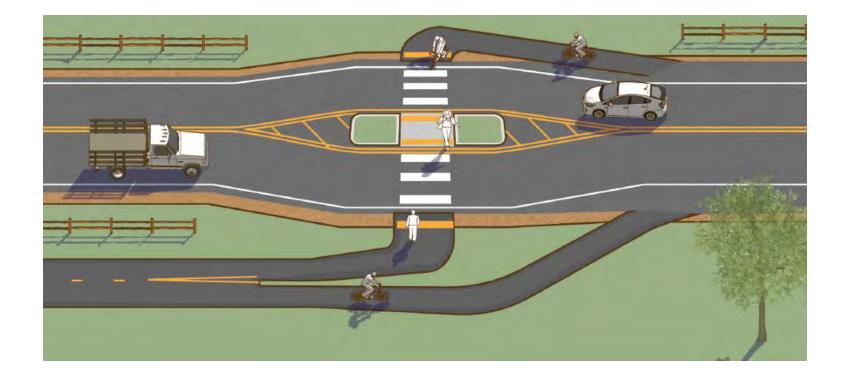
Shared Use Sidewalks / Sidepaths





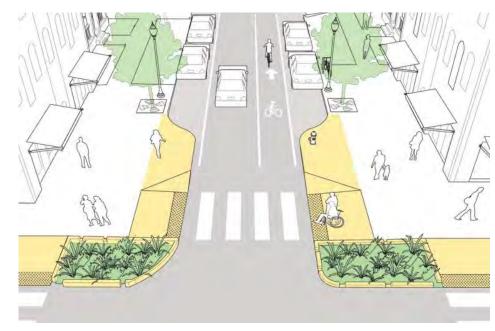
Transition Points w/Separated Facilities







Curb Extensions









Speed Bumps









Crosswalks







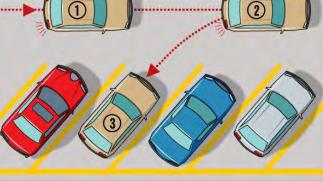
Parking



Parallel Parking



REVERSE ANGLE PARKING 1. Signal for turn 2. Stop just past the parking space 3. Back into the space, using side mirrors to view lines





Angled Parking



Protected Bike Lanes







Good Old Fashioned Bike Lane





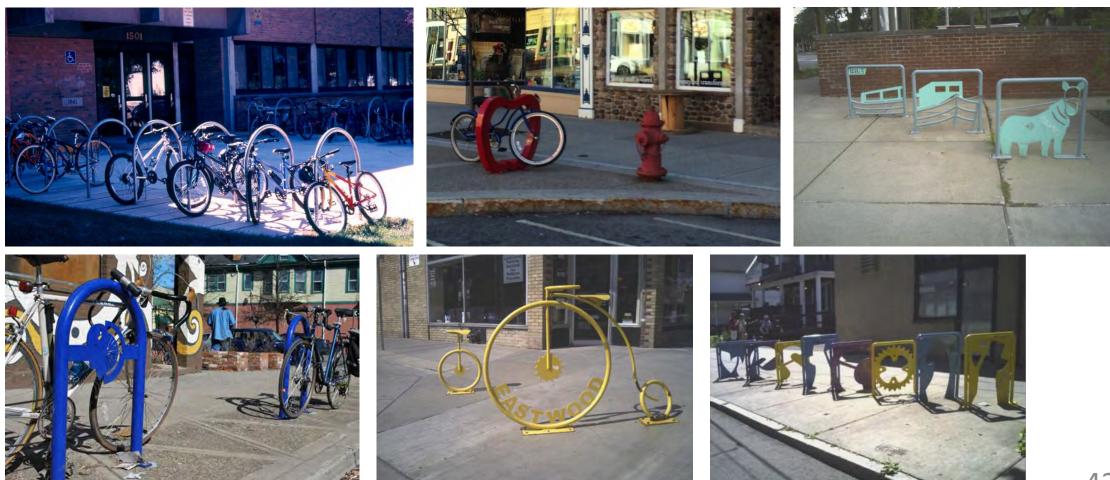
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Bike Parking





Bike Corral











ADA Accessibility





Active Transportation & Complete Streets TRAINING





Streetscaping & Public Art





Case Study in Creativity

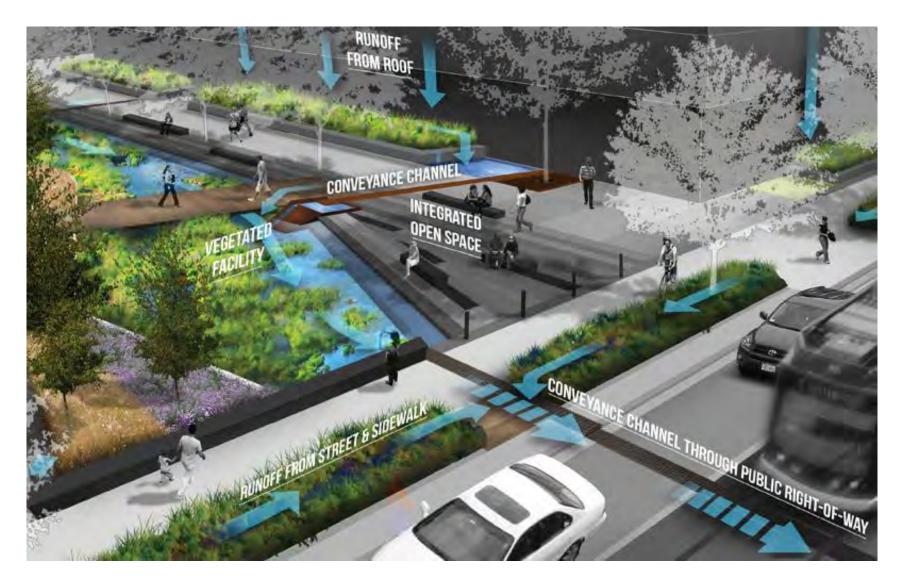






Environmental Considerations





UCS URBAN CYCLING SOLUTIONS



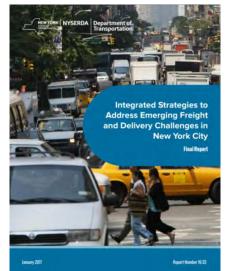




Tools & Resources





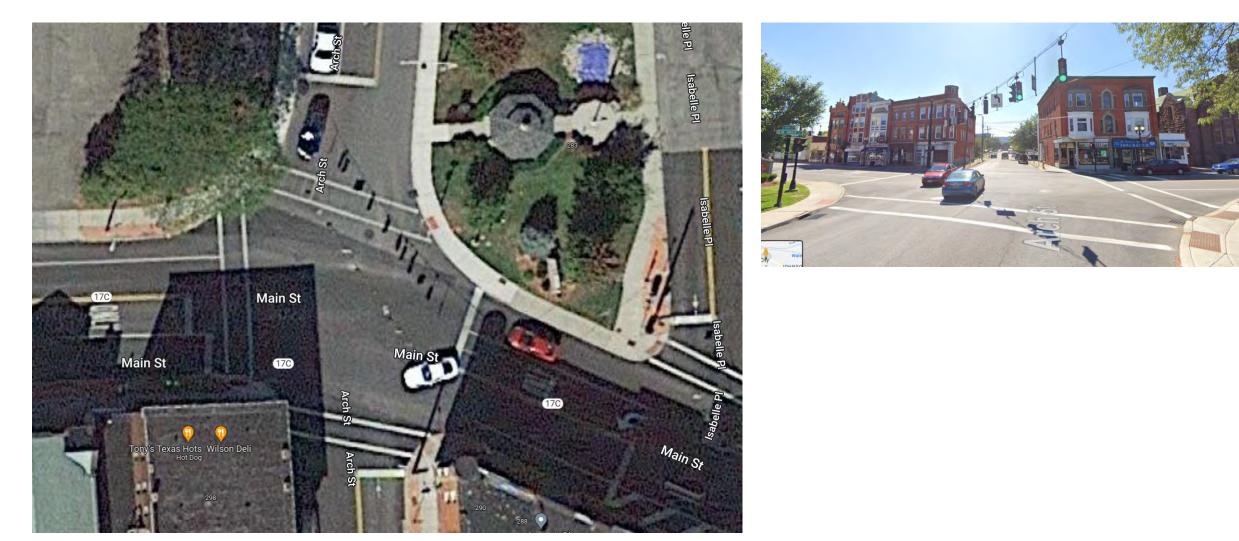


48

Let's take a walk!

Main & Arch Street (Existing)

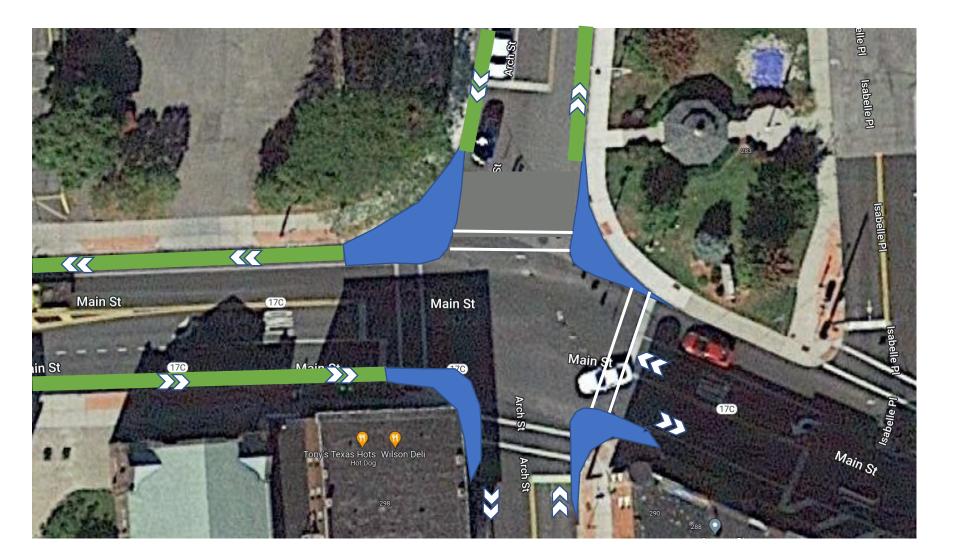




Main & Arch Street (Audit) Urban Cycling Solutions Park Space Ille Pl Wide Isabelle Pl Pedestrian No Crossings Crosswalk Main St Main St Main St (17C) in St 17C Brick Main St Tony's Texas Hots Wilson Deli Hot Dog Sidewalk features

Main & Arch Street (Visioning)



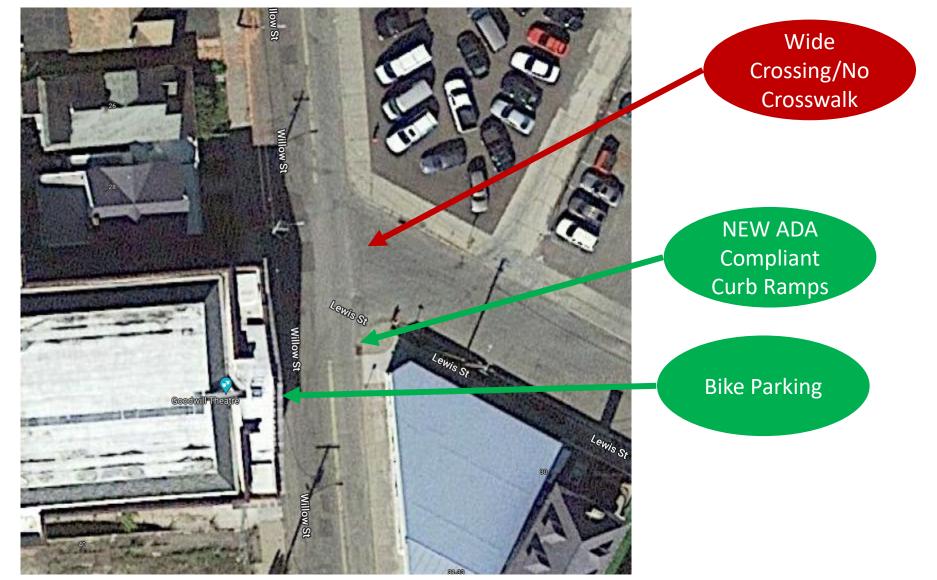


Corliss Ave, Lewis St, Jennison Ave (Existing) UCS URBAN CYCLING





Willow & Lewis (Audit)



54

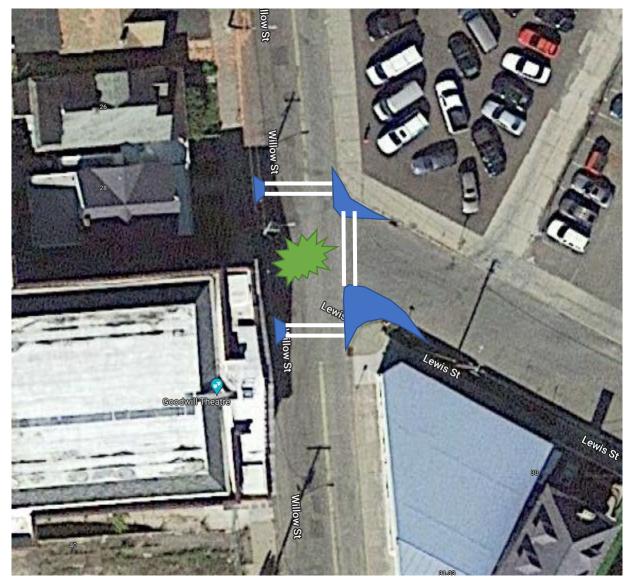
U C S URBAN CYCLING SOLUTIONS

Corliss Ave, Lewis St, Jennison Ave (Existing) UCS URBAN CYCLING





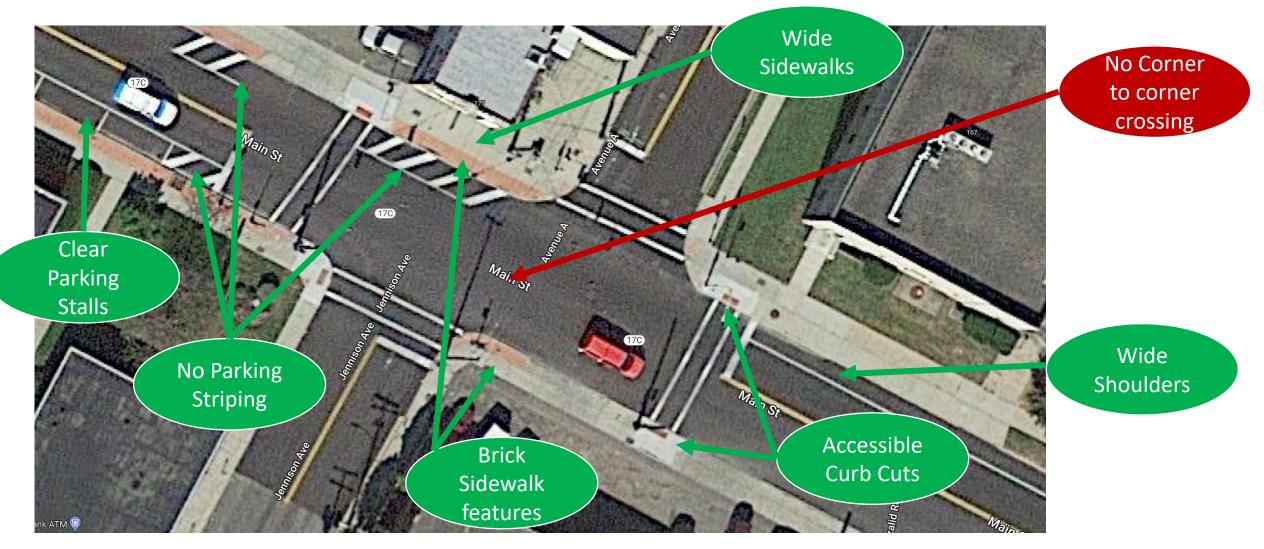
Corliss Ave, Lewis St, Jennison Ave (Visioning) UCS



Jennison Ave, Main Street & Ave A (Existing) UCS



Jennison Ave, Main Street & Ave A (Audit) UCS



Jennison Ave, Main Street & Ave A (Visioning) U CS



Establishing Policy Framework



- Understand the necessity of a Complete Streets policy
- Dissect the anatomy of a robust Complete Streets policy
- Address common regulatory challenges
- Learn to evaluate effective policy measures



Why do communities need a Complete Streets policy?

U C S Urban Cycling Solutions

Represents an official mandate to work toward an integrated transportation network for all users, as well as the establishment of a reporting framework.

Functional Classification	Building Use Zone	Pedestrian Zone	Buffer Zone	Transit Lane	Travel/Turn Lane	Median Zone	Bicycle Zone	Parking Zone
		D	OWNTO	WN				
Principal Arterial								
Minor Arterial								
Major Collector								
Local Road								
		EIGHBO	RHOOD	MIXED U	SE			
Principal Arterial								
Minor Arterial								
Major Collector								
	N	EIGHBO	RHOOD F	ESIDENT	TAL			
Minor Arterial						1		
Major Collector								
Local Road								
		сомм	UNITY M	IXED US				
Minor Arterial								
Major Collector	1							
Local Road								
		сомми	NITY CO	MMERCI	AL			
Principal Arterial					1			
Minor Arterial			1					
Major Collector								
		-	NDUSTR	AL		-		
Major Collector	1							
Local Road								

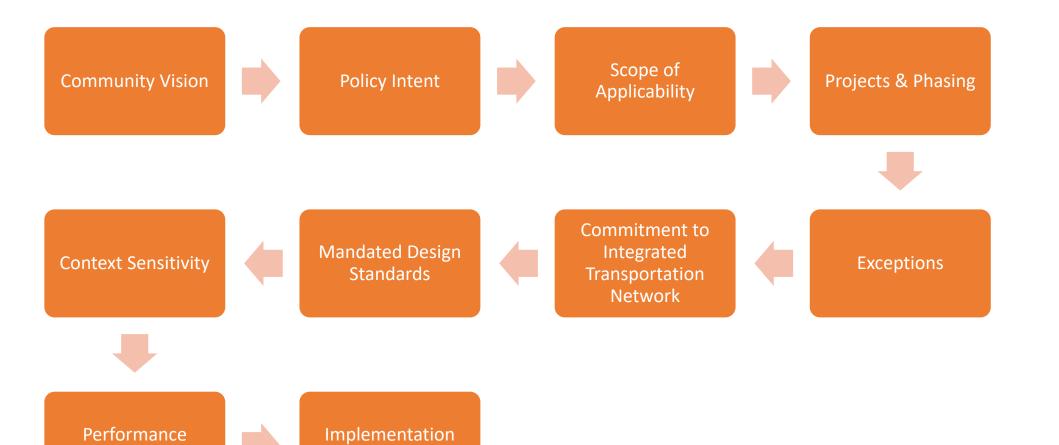


High Priority				
Medium Priority				
Low Priority				

Anatomy of Complete Streets Policy

Measures





Mandates

64

School Zones

- .25 Miles of roadways passing by a school entrance/exit
- Reduced speed limit
- Specific Hours of Operation with accompanying signage
- Flashing beacons can also be used







NYC Neighborhood Slow Zones

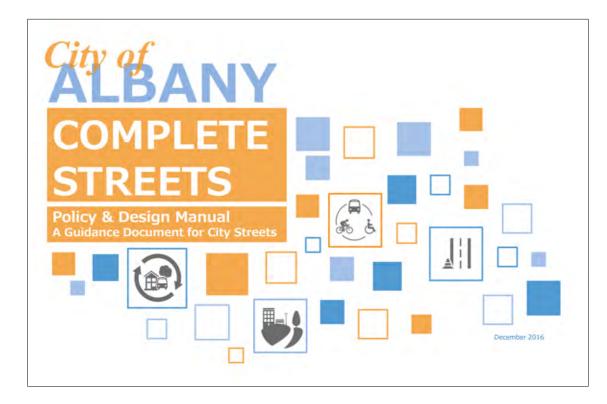
- Application-based program led by communities
- Implemented in small, selfcontained areas with local streets
- Reduces speed limit to 20MPH
- Uses speed bumps, marking and other place-based treatments.

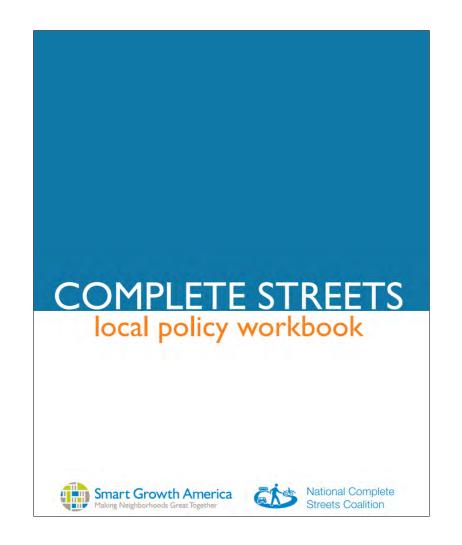




Tools & Resources



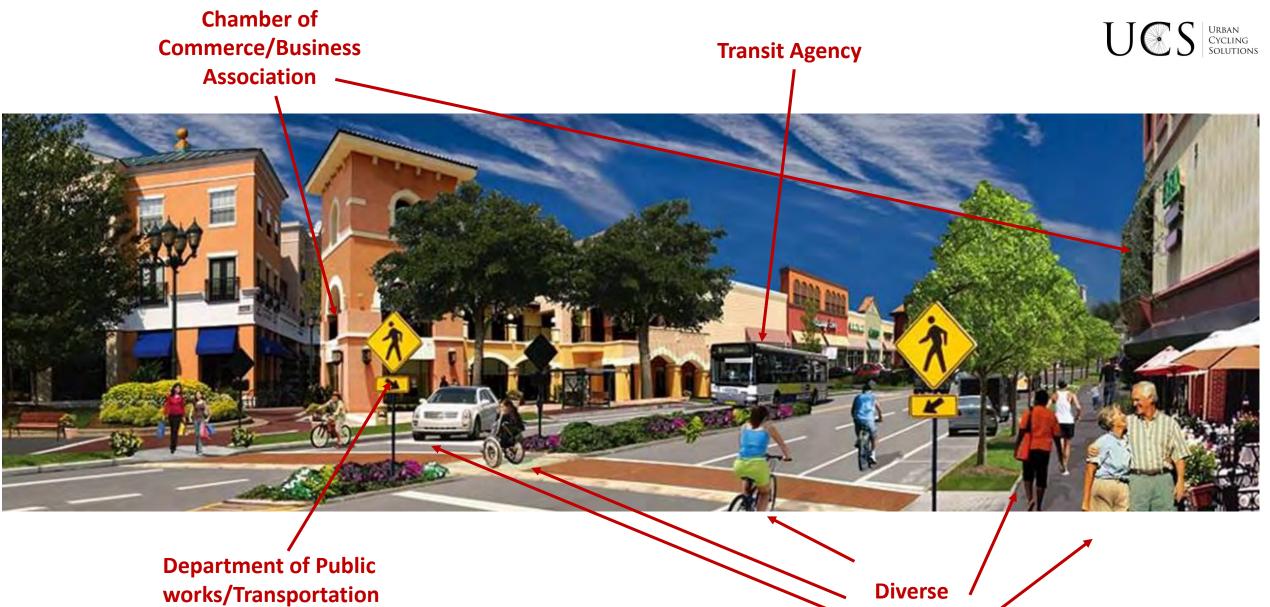




Implementing Complete Streets



- Understand the challenges of implementing Complete Streets projects
- Identify strategies for implementing Complete Streets
- Learn about methods for building an advisory group



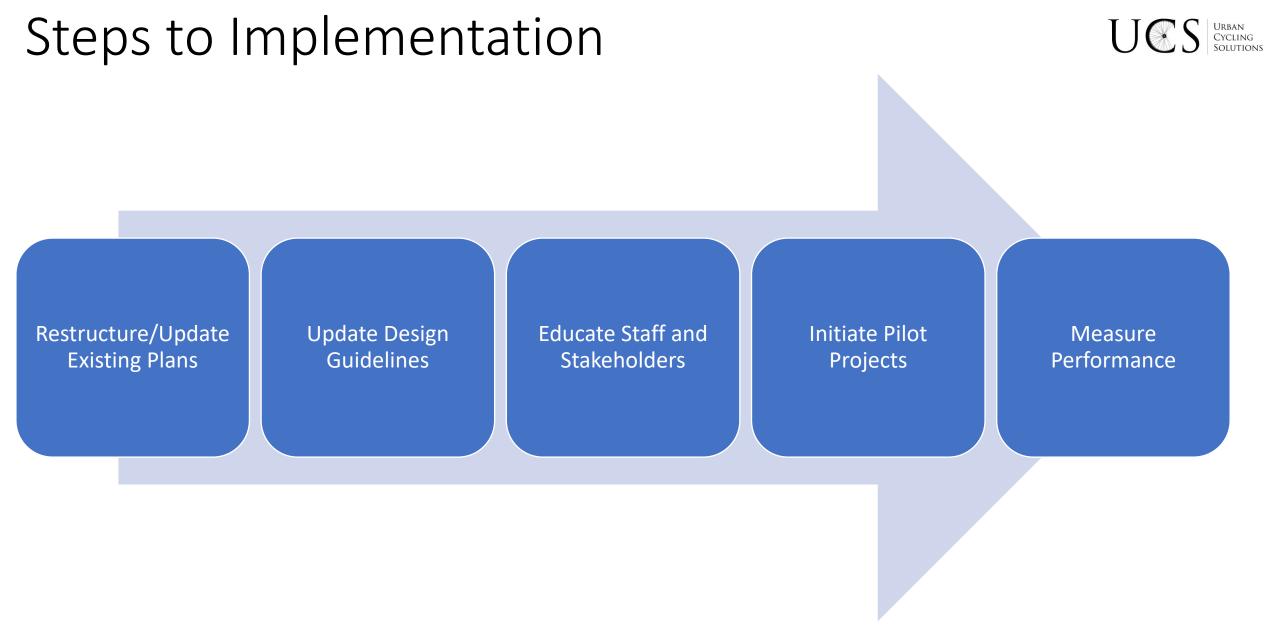
(Maybe State DOT)

Stakeholders

Understanding Roles



Customer Concerns	-	Partners and Roles						
	Technical Issue	TRANSIT AGENCY	PUBLIC SECTOR	PRIVATE SECTOR	ADVOCATES			
"How do I get to transit via bicycle?"	Safe routes to transit	Influencer role; communicate customer demand to municipal authority; act as funding partner, provide policy support where possible	Lead role; responsible for planning, implementation and maintenance of facilities; data sharing	Varies; developers may fund bike paths as an abatement and/ or amenity in conjunction with development projects	Influencer role; advocate for better bike facilities and connectivity throughout the bike network; help identify demand, balanced with other mode advocacy			
"What do I need to know?" "Where can I find information about biking to transit?"	Customer communication and education	Lead role; provide central repository with clear information on using bikes with agency services, facilities and incentives	Lead role; provide accessible information on the bicycle network as it relates to transit facilities; includes wayfinding and route maps	Support role; employers may provide incentives for biking to work and use existing educational materials to illustrate resources	Lead role; provide grassroots messaging to underserved populations; incorporate transit resources into educational materials; provide translations; support events; provide amenities such as parking and showers			
"Is there a safe place to store my bicycle?"	Bike parking at or near transit facilities	Lead role; responsible for design, implementation, maintenance and administration of bike parking at transit stations	Varies; provide demand data for bike parking; leads construction; ensures interoperability with bicycle parking if possible; establishes bike parking standards in land-use code	Varies; provide information and incentives for using bike parking; can build own bike parking facilities if near transit	Varies; some advocacy groups may be contracted for operations of bike parking; advocates should otherwise provide information for users			
"Can I extend my transit ride with a bike?" "How do I complete my trip by bike at both ends?"	Bikes onboard transit vehicles	Lead role; responsible for operations, policy and administration	Support role; should communicate customer demand to transit agencies; provide data about facility use	Support role; incentivize and encourage bicycle integration with transit, communicate customer demand to transit agencies	Influencer role; provide information to the community; communicate customer needs			
"Can I get to transit without using my own bike?"	Bike-share connectivity	Varies; where feasible, work with bike-share operators to ensure clear rules for dockless bikes and efficient placement for stations	Varies; municipalities overseeing planning for bike share should work proactively to ensure adequate capacity at transit stations	Varies; may fund bike- share programs through sponsorship and advertising; may provide incentives for using bike share	Influencer role; promote the use of bike share at the grassroots level and provide education on bike-share resources; work with providers on discounted use and access for unbanked users			



Short-Term Pilots...



- Streamline implementation
- Demonstrate feasibility
- Allow for experimentation
- Foster community
 - engagement
- Attract new funding sources



Tag-Along Projects...



- Enable planners and engineers to capitalize on permitting and staging for other projects
- Design today for projects tomorrow
- Bring more bang for the taxpayer's buck





Common Myths...

Businesses will lose customers if we take away parking...

It just won't work here, our community is too unique...

Police, fire, and emergency services will not have access ... We don't have the money for this...

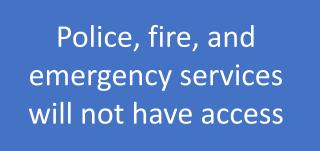


Businesses will lose customers if we take away parking...

Studies show the opposite is true: more walkable and bikeable communities increase commercial activity and business satisfaction

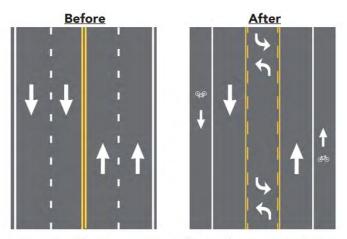




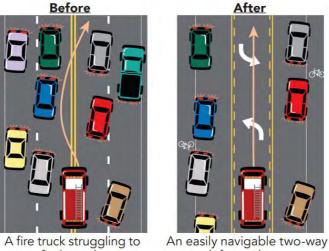


FALSE: A Road Diet design opens a more predictable and practical path for emergency responders.

...also, Complete Streets projects reduce crashes, and the overall demand for emergency services.



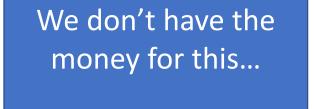
Two travel lanes are removed to reallocate space for a TWLWL and bicycle lanes.



find a path.

left-turn lane.





If planned properly, complete street improvements can be no/low cost, and folded into other projects like routine street millings or utility projects.





It just won't work here, our community is too unique...

It's the unique elements in each community which make Complete Streets projects special!





Funding Complete Streets - Federal

Better Utilizing Investments to Leverage Development (BUILD) Grant

- Formerly known as Transportation Investment Generating Economic Recovery (TIGER) Grant
- Extremely Competitive
- Multi-modal, multi-jurisdictional projects
- Open to ANY Public Entity (unlike most USDOT funds)





Funding Complete Streets - Federal

NYS Congestion Mitigation and Air Quality Program (CMAQ)

Safe Routes to School Program (SRTS)

Statewide Transportation Improvement Program

Surface Transportation Block Grant (STBG)



Funding Complete Streets - State

Consolidated Local Street and Highway Improvement Program (CHIPS)

New York State Main Street Program



Local Waterfront Revitalization Program



Funding Complete Streets – Foundations



Rails-to-trails Conservancy

Doppelt Family Trail Development Fund



People for Bikes

• Community Grants for design and construction

Local Sponsors

 Healthcare providers; nonprofit groups; philanthropy



Funding Complete Streets – Private Sources



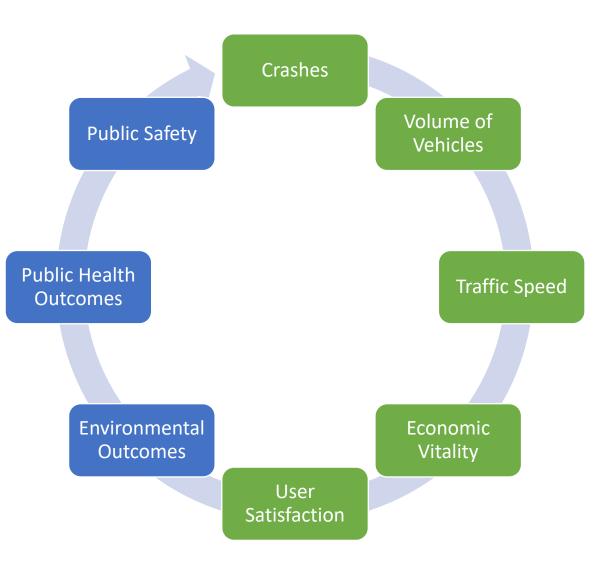
Evaluating Success



- Identify Complete Streets outcomes
- Discuss methodologies for data collection around biking and walking
- Introduce national frameworks for bicycle- and pedestrian-friendly community recognition

What Do We Measure?





How to Develop a Strong Dataset



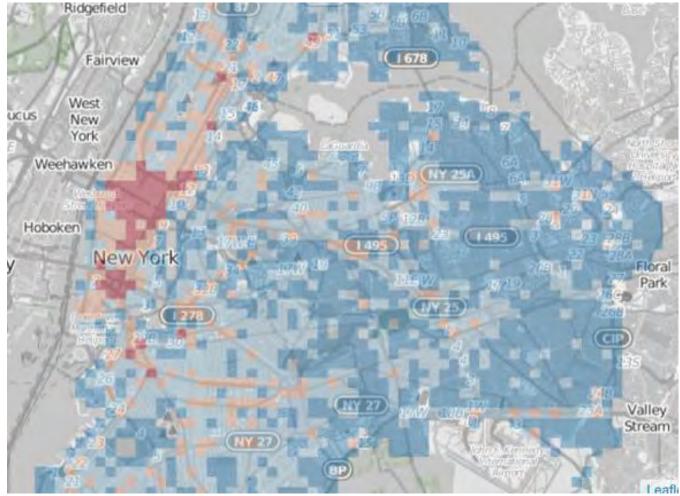
- 1. Prioritize outcomes that are important to your community
- 2. Determine methodology
- 3. Establish a baseline
- 4. Set a regular schedule for evaluation





Traffic Crashes

- Available from local police department
- Different types of traffic accidents:
 - Car to car
 - Car to bike
 - Car to pedestrian
 - Bike to bike
 - Bike to pedestrian



Traffic Volume

- Ways to measure traffic volume:
 - # of cars/bikes/pedestrians on street
 - Vehicle Turning Counts (intersections)
- Methods:
 - Manual Counts
 - Automatic Counts
 - Pneumatic Road Tube and Recorder
 - Video Analytics
 - Permanent Counters



U C S Urban Cycling Solutions



- Manual Counts
 - Speed gun
- Automatic Count Methods
 - Speed cameras
 - Automated speed signs





Economic Vitality

U C S Urban Cycling Solutions



Commercial Activity

• Sales Tax receipts in businesses fronting Complete Streets improvements



Business Engagement

- Number of visitors in local establishments
- Number of seated pedestrians affronting businesses abutting complete street improvements
- User surveys
- Business surveys



Commercial Vacancies

- Building Permits
- Number of vacant storefronts



Downstream Outcomes

Public Health

- Asthma Rates
- Obesity Rates

Public Safety

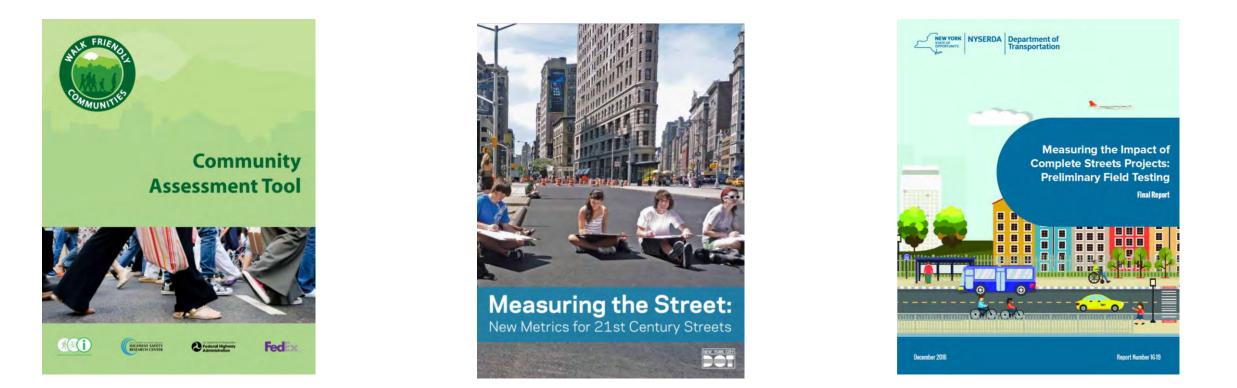
- Perceptions of Safety
- Crime rate

Environmental

- Air quality
- Water Quality

Tools & Resources





 Evaluating the Impact of Complete Streets Initiatives (Go Bike Buffalo & Center for Inclusive Design and Environmental Access)

Review of key takeaways



- Review everything we learned today
- Discuss how these strategies can improve mobility in YOUR community

Active Transportation is any self-propelled, UCS human-powered mode of mobility





There are many tools...





There are many tools...







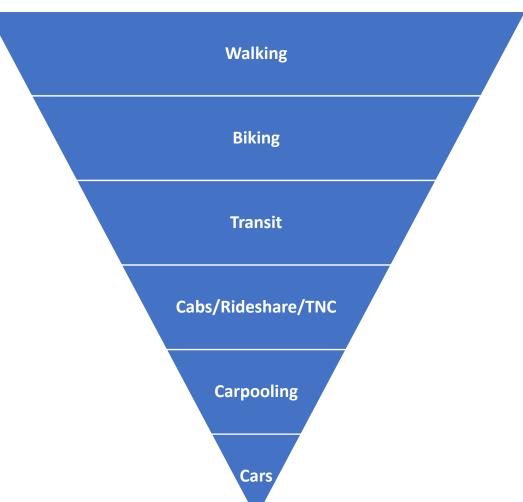
Don't forget about freight mobility...





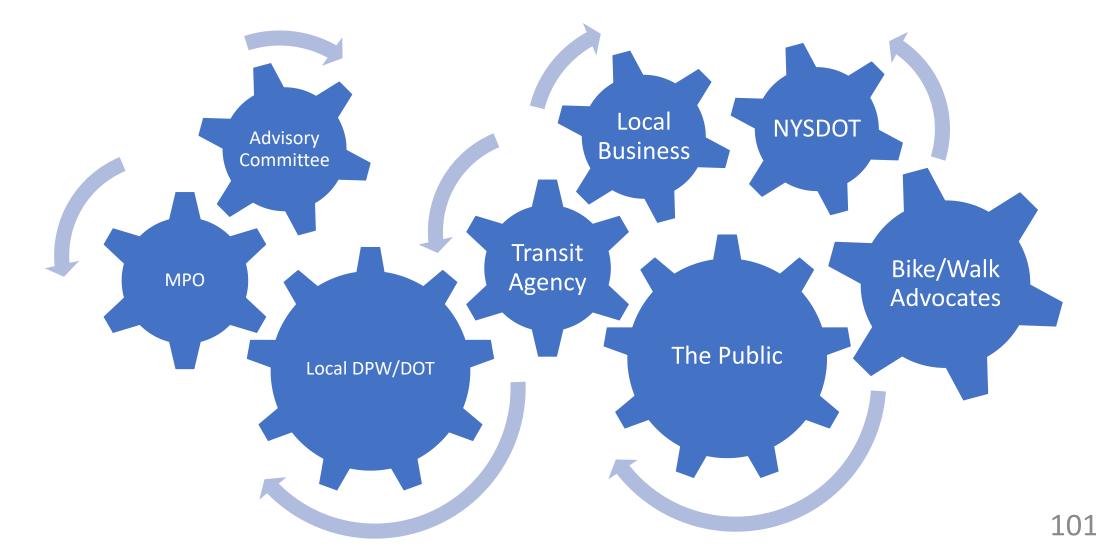
Completes Streets policies set the tone and establish guidelines for future street improvements...





Implementation is complex, but can be streamlined with cooperation and education...









What questions do you have?