

Complete Streets Master Plan

Project Advisory Committee (PAC)

Meeting #2

September 19, 2017



Welcome and Introductions

- Please tell us about yourself and answer the following...
 - What are your thoughts on how Complete Streets are being built and/or implemented in Broward?





Summary of Kick-off Meeting (May 22, 2017)

Project Overview



Guide the Broward MPO's future investment in Complete Streets
Develop a data-driven analysis
Incorporate transportation partners' input
Develop a prioritized list of projects

Background Data



Complete Streets, Best Practices from around the Country, Maps, Analysis Ideas, and Coordination

What are our Priorities?



Develop prioritization criteria consistent with the goals and objectives established in Commitment 2040. Priority Pyramid – Safety, Social Equity, and Added Mobility Options

Outreach



Fall 2017 – Public Outreach Winter 2018 – Potential eTown Hall Meeting to roll out the Master Plan



Today's Agenda

- Pedestrian & Bicycle Supply and Demand Analysis
- Equity Analysis
- Gap Analysis
- Lane Elimination Coordination
- Outreach
- Next Steps/Closing



Analysis Strategy: Supply + Demand

LOW DEMAND / HIGH SUPPLY

Encouragement programs; low investment priority

HIGH DEMAND / HIGH SUPPLY

Innovative design treatments, closure of key gaps; medium investment priority

Model-Based Recommendations

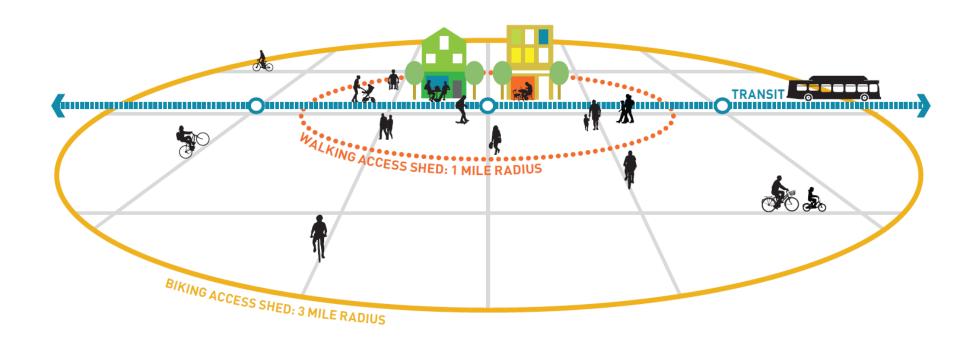
Basic infrastructure improvements; low investment priority

LOW DEMAND / LOW SUPPLY

Invest in infrastructure to meet demand; high investment priority HIGH DEMAND / LOW SUPPLY



Align analysis with how people walk and bike





Pedestrian Suitability

- Assesses roadway variables that influence pedestrian comfort
- Determines how suitable roadways are for pedestrians
- Identifies roadways that require more robust pedestrian facilities to maintain comfort

Variables Assessed

Posted Speed

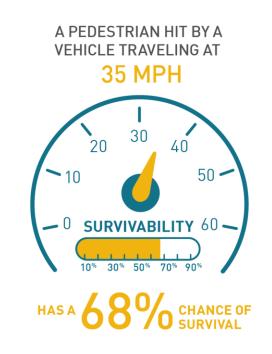
Number of Travel Lanes



Pedestrian Suitability Speed Variable

- Model rooted in relationship between speed and crash severity
- As speeds increase, chance of pedestrian surviving crash decreases









Pedestrian Suitability Exposure Variable

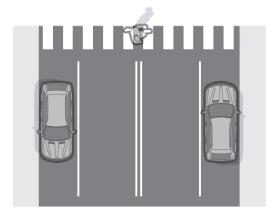
- In model, exposure represented by *number* of travel lanes
- Multi-lane roads take longer to cross, increasing pedestrian exposure

WIDER STREETS TAKE LONGER TO CROSS

The MUTCD calculates walking speed at 3 feet per second (+ 2 seconds)

AT THIS SPEED, IT WILL TAKE A PEDESTRIAN

15 SECONDS
TO CROSS A 2-LANE ROAD
WITH PARKING



AT THIS SPEED,
IT WILL TAKE A PEDESTRIAN

40 SECONDS

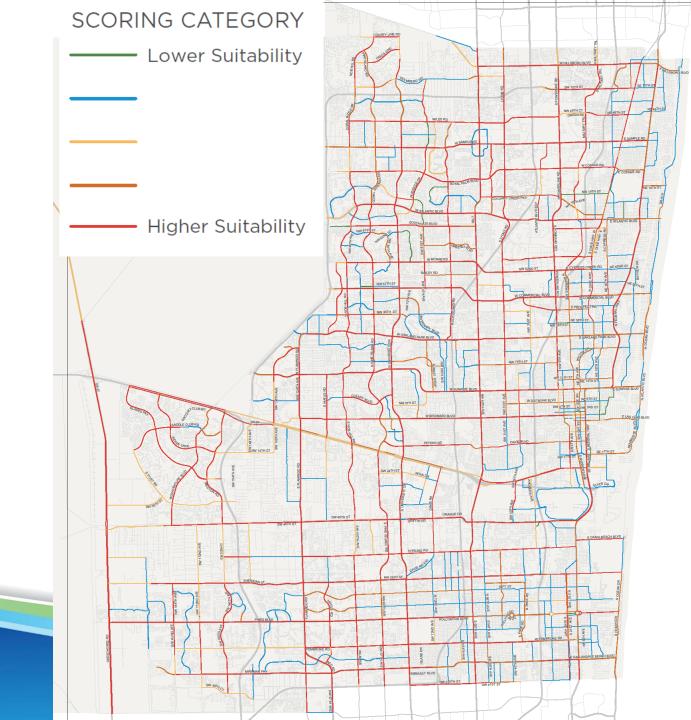
TO CROSS A 9-LANE ROAD
WITH A MEDIAN (SUCH AS W ATLANTIC BLVD @ US-441 S)



Pedestrian Suitability Results Map

- 5-Tier suitability score
- Most roads received low suitability score
- These roads require robust pedestrian facilities to maintain comfort

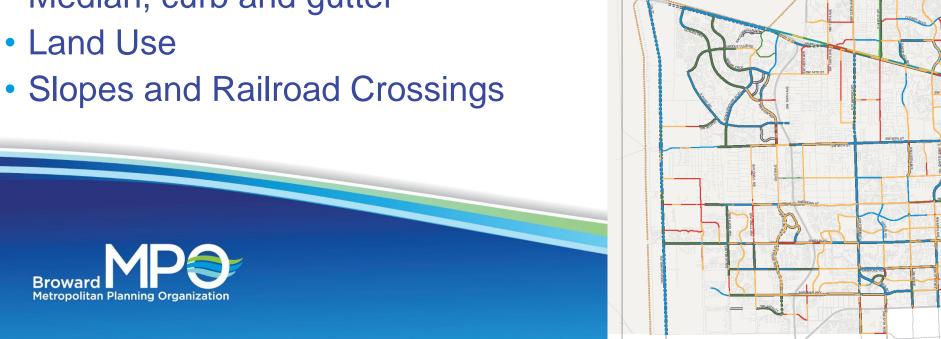


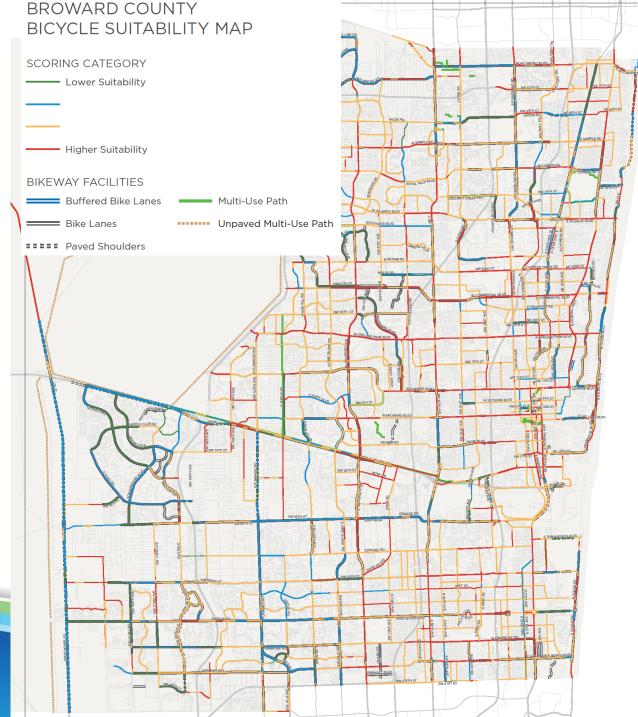


Bicycle Suitability

13 Input Factors

- AADT
- Travel and turn lanes
- Speed
- Presence/Absence of Bike **Facility**
- Median, curb and gutter





Demand Analysis

Composite Results

- Estimates propensity for walking and bicycling in Broward County
- Uses six inputs to estimate demand

LIVE

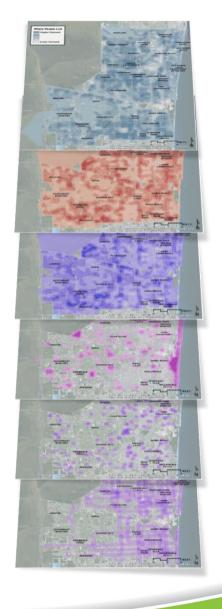
LEARN

WORK

SHOP

PLAY

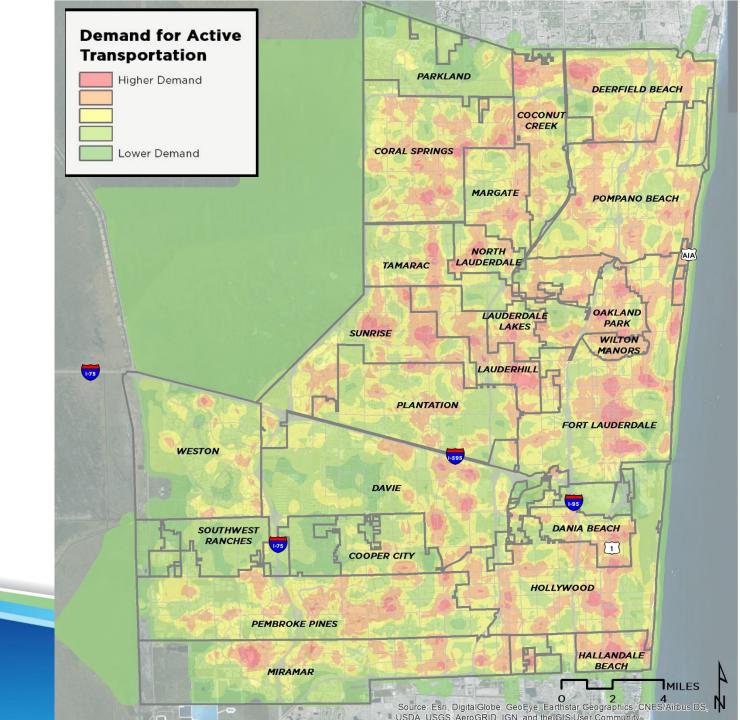
ACCESS TRANSIT





Demand Analysis Composite Results

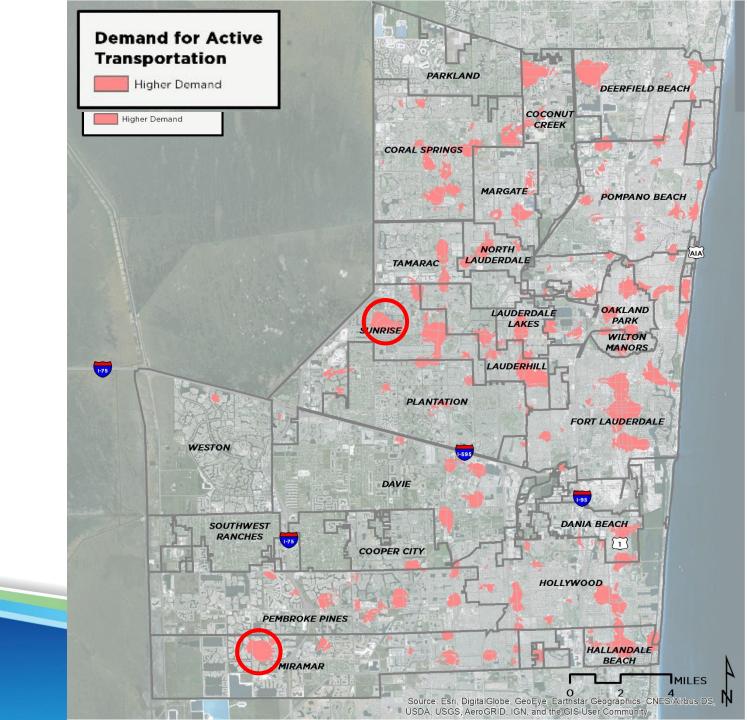
- Pockets of demand throughout county
- Hot spots range in size





Demand Analysis High Demand Areas

- Hot spots are distributed
- Size of hot spots
 generally small,
 compared to county size

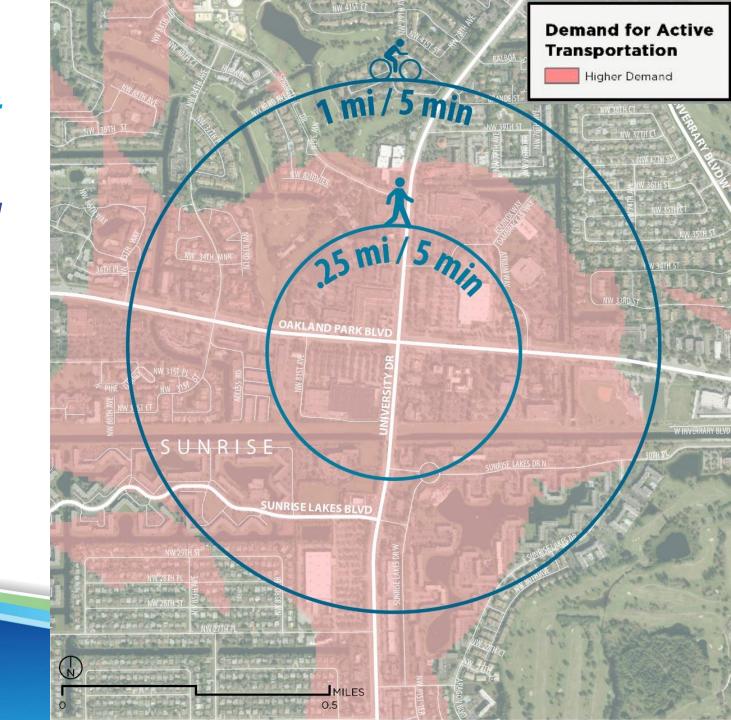




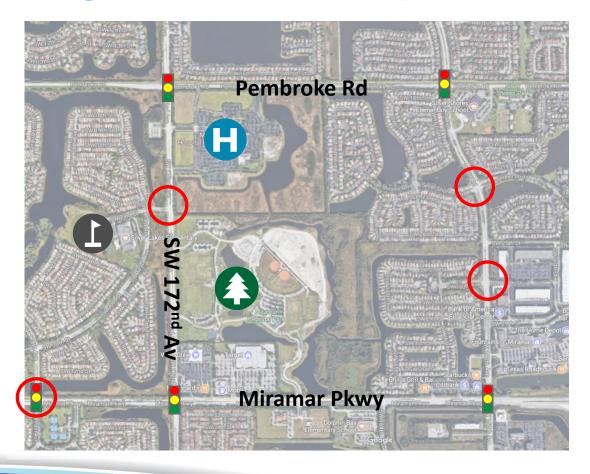
Demand Analysis *High Demand Snap Shot*

- Many hotspots correspond to 5 minute walk/bike shed
- Concentrating
 investments in these areas
 = highest potential impact
 on mode shift
- Logic will guide recommendations





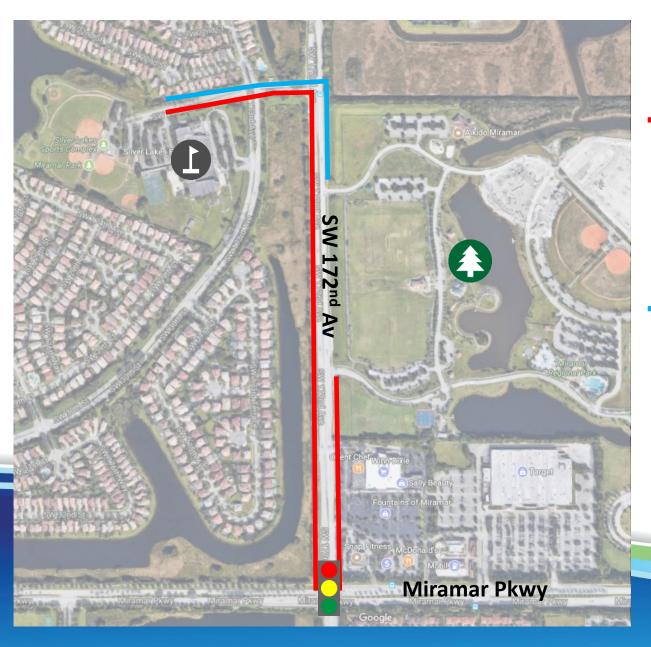
High Demand Snap Shot - Miramar



- Limited neighborhood access
- Signalized crossings are more comfortable – but not all neighborhoods have them
- Neighborhood Access to Arterial
- **Existing Traffic Signal**



High Demand Snap Shot - Miramar



School to Park

Shortest route to park (that uses marked crossing) = 1 mile (20 minutes)

Shortest route (without marked crossing) =.3 miles (5 minutes)

High Demand Snap Shot - Miramar





What mode would you take with your kids today?

Equity Analysis

- Identifies areas with concentration of historically vulnerable populations
- These populations tend to *rely more on* walking, bicycling and transit for more trips
- Uses six indicators

Equity Indicators

INCOME

ENGLISH

PROFICIENCY

AGE



RACE





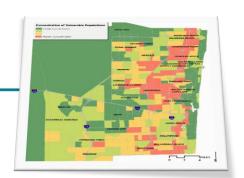


VEHICLE ACCESS





Composite Equity Map

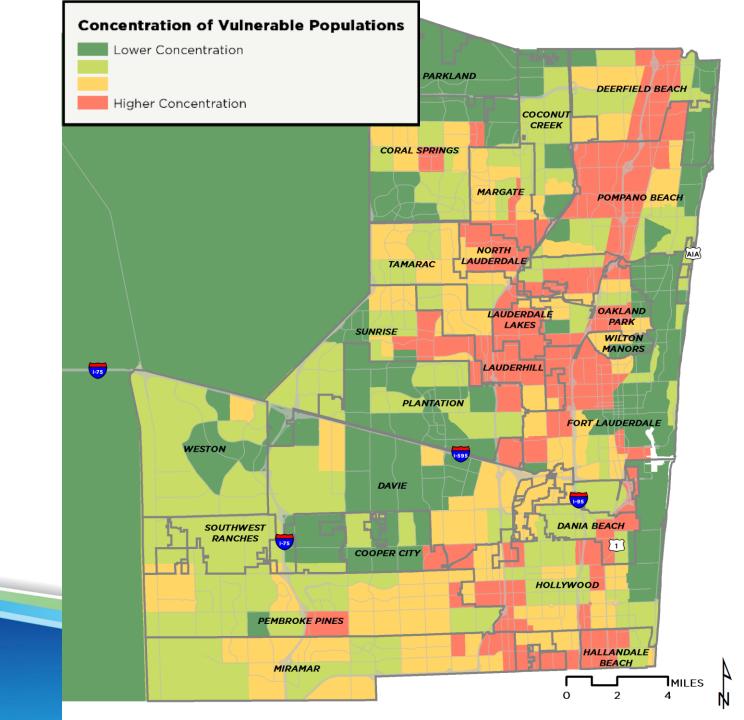




Equity Analysis

Composite Results

- 4-Tiered Scale
- Shows concentrations of historically vulnerable populations
- Identifies areas where more transportation investments may be needed





Gap Analysis

TIGER Projects =

CSLIP Projects

TAP Projects

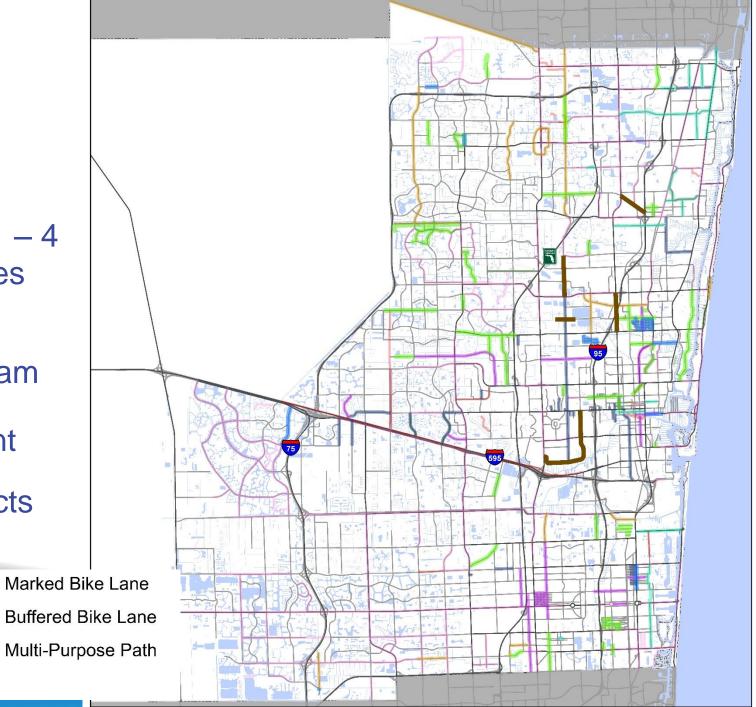
- Building from existing facilities excluding...
 - Mobility Projects Phase 1 − 4
 - Transportation Alternatives Program (TAP) Projects
 - Complete Streets/Other Localized Initiative Program (CSLIP) Projects
 - Transportation Investment Generating Economic Recovery (TIGER) Projects

Mobility Projects Phase 1

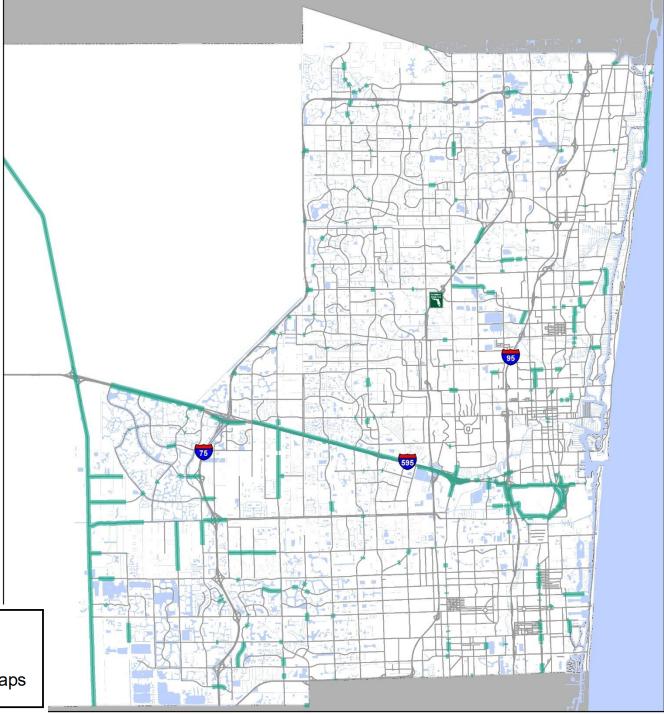
Mobility Projects Phase 2

Mobility Projects Phase 3

Mobility Projects Phase 4



Gap Analysis – Sidewalk Facility

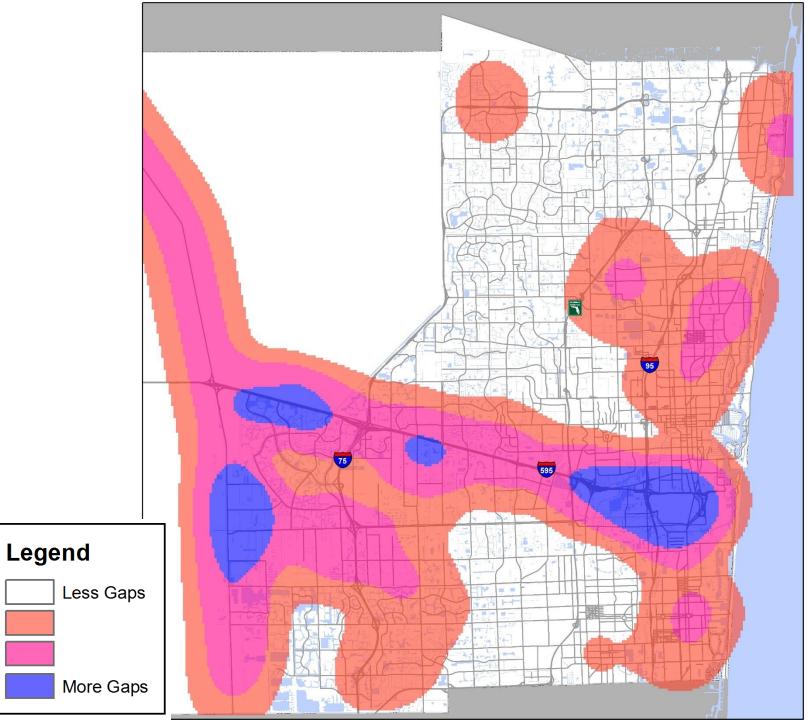




Legend

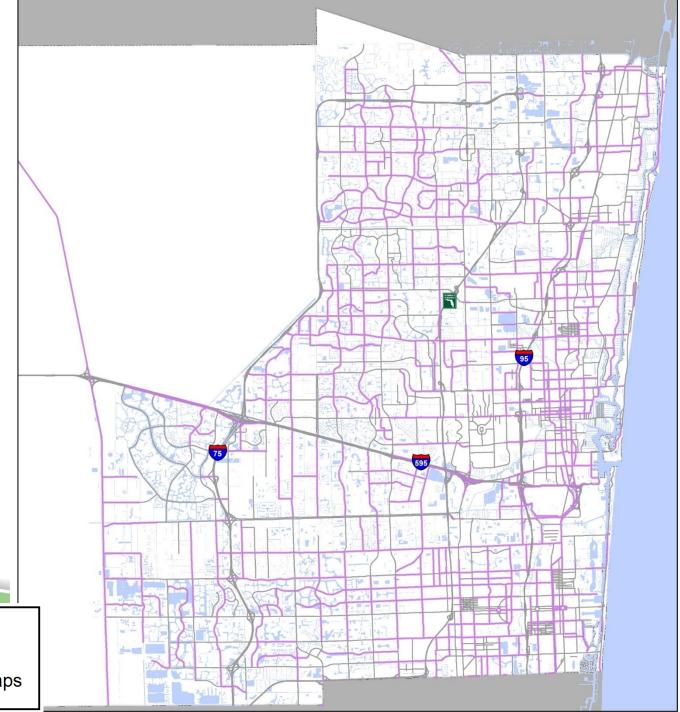
Sidewalk Facility Gaps

Gap Analysis – Sidewalk Facility





Gap Analysis – Bike Facility

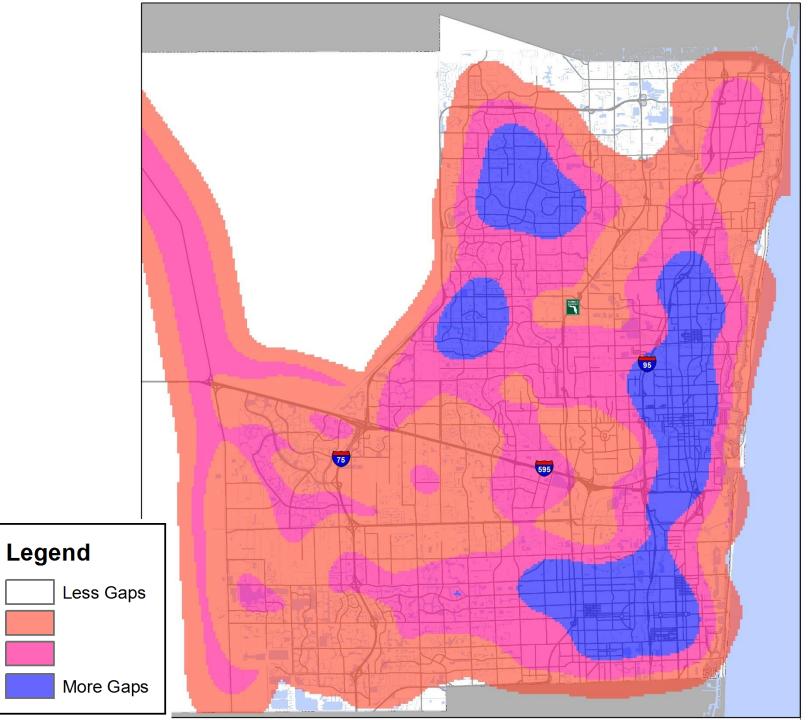




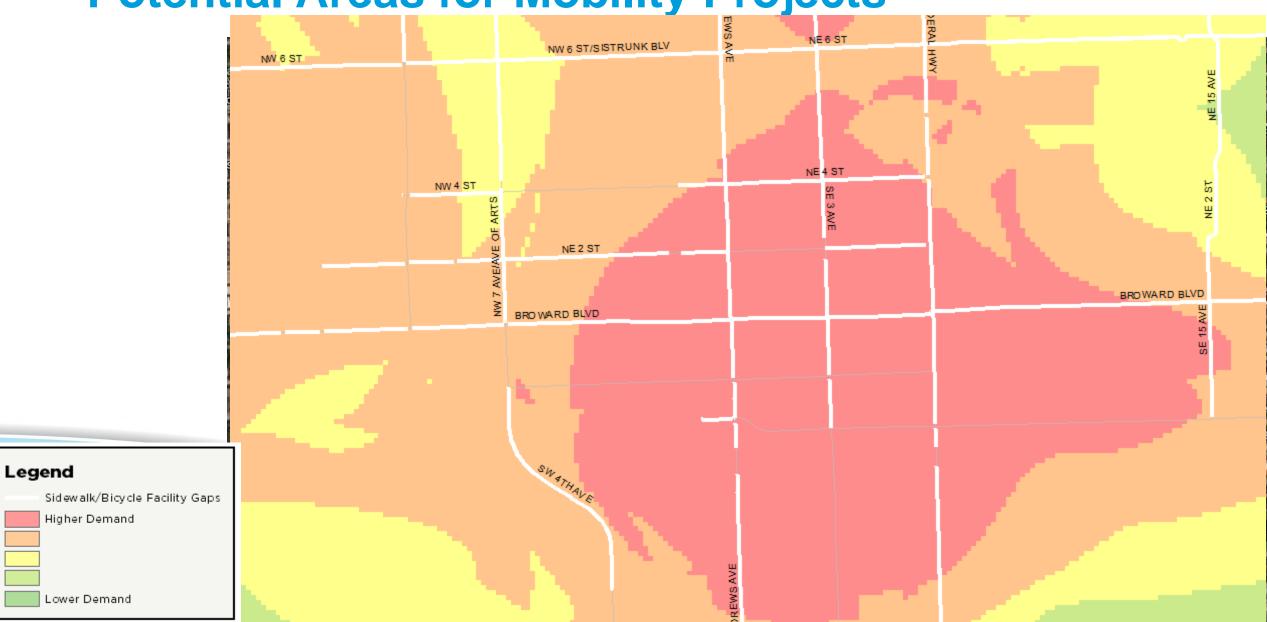
Legend

Bicycle Facility Gaps

Gap Analysis – Bike Facility



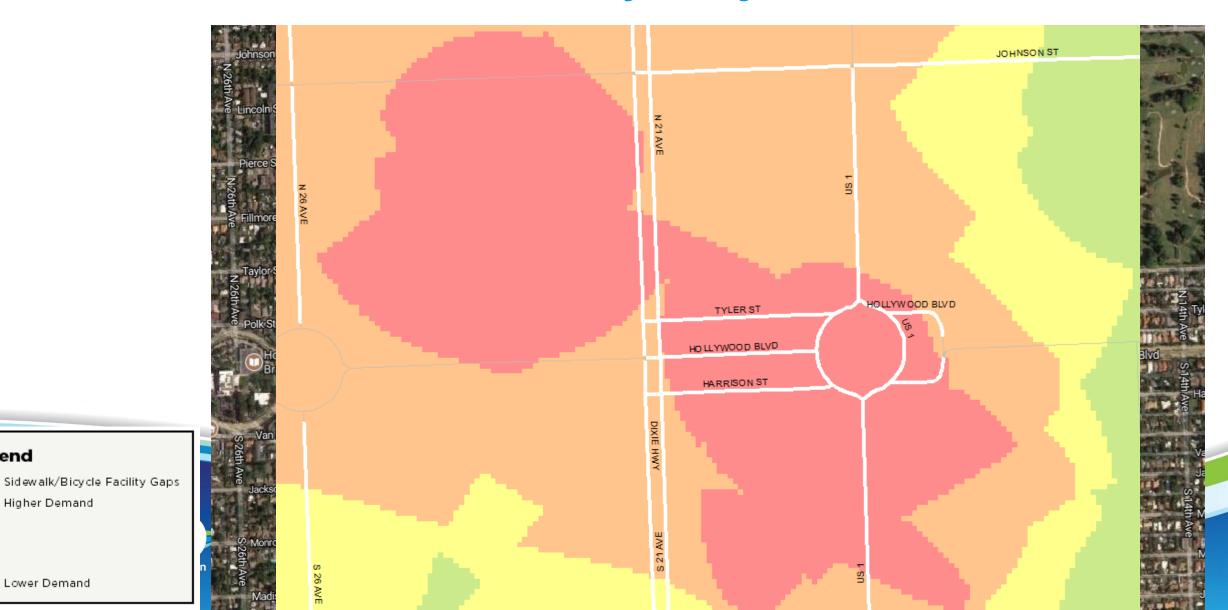




Legend

Higher Demand

Lower Demand

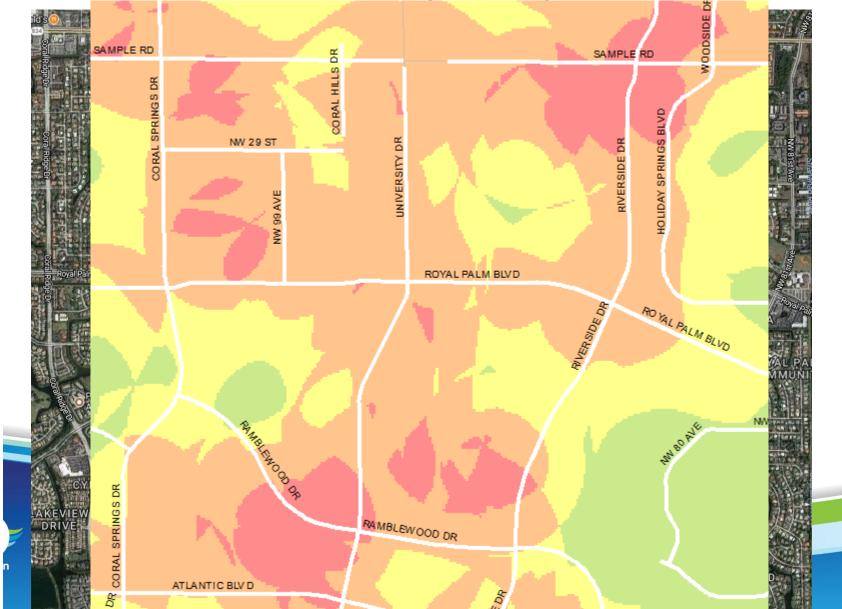


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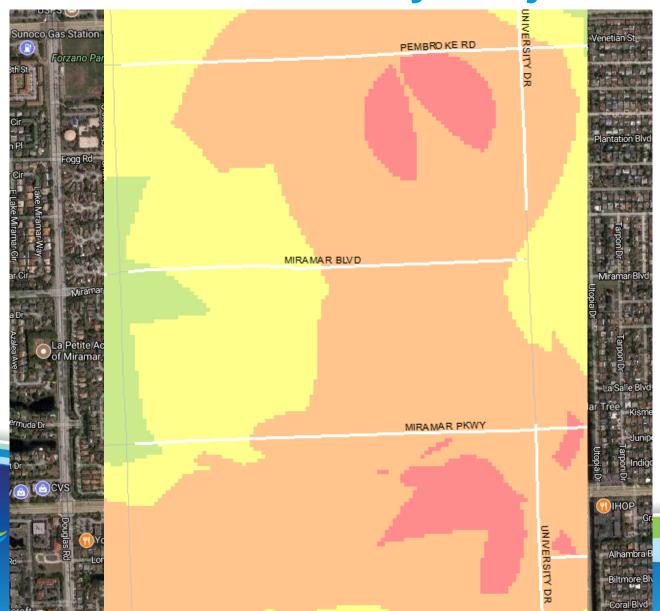
Sidewalk/Bicycle Facility Gaps

Higher Demand

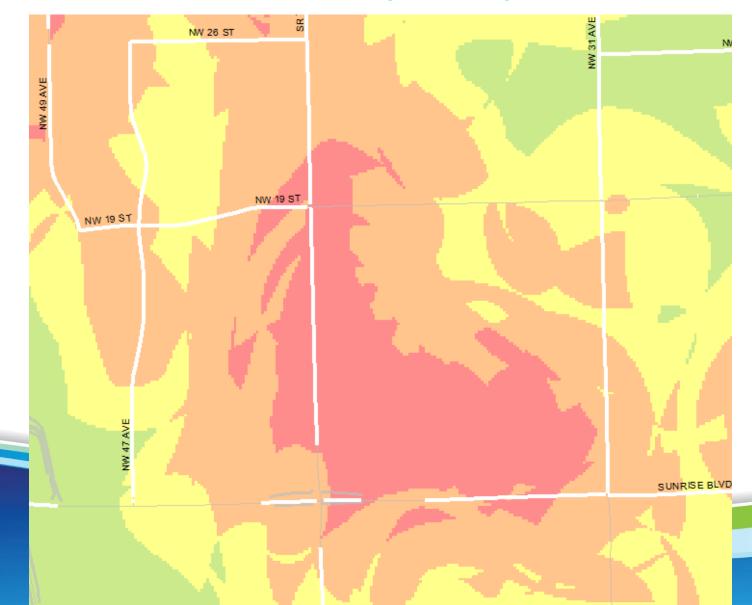
Lower Demand

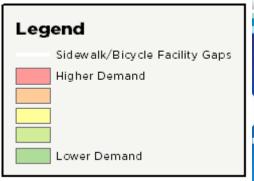


BrowardMPO.org









Lane Elimination Coordination

- Planned Projects Overview
 - Reviewed CIPs, Comp Plans, Transportation Plans and others to identify potential Lane Elimination projects
 - Summary table by city of findings

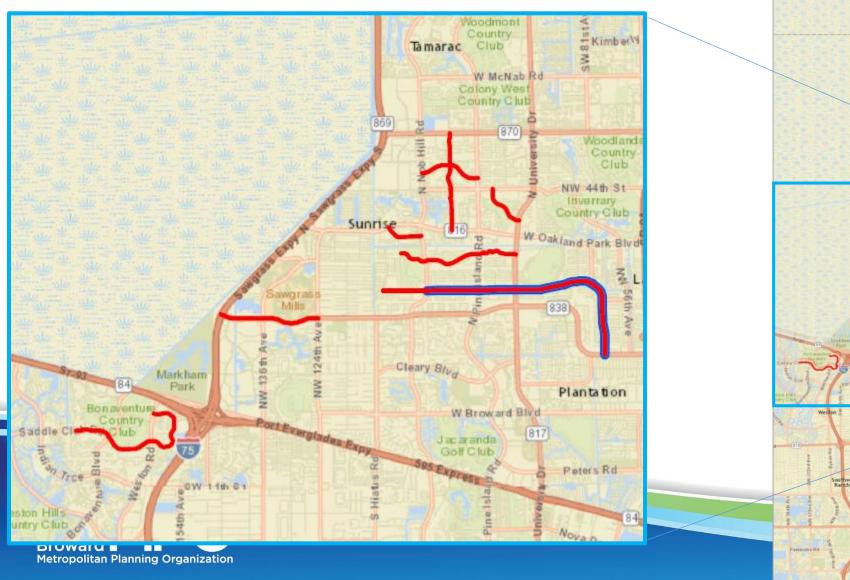


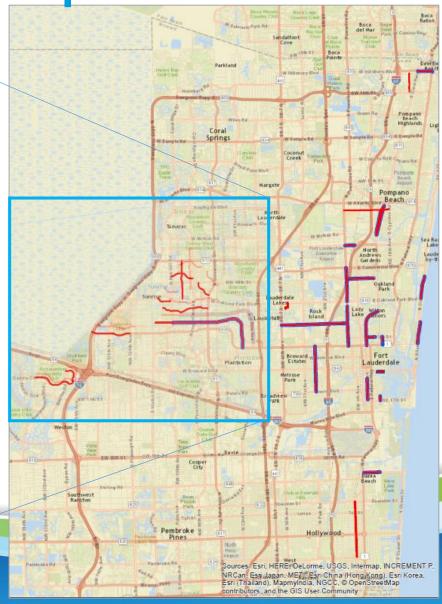
Planned Projects Overview

Planned Lane Repurposing/Eliminations in Broward County							
41.	Lane Elimination found in						
City	CIP*	Comp. Plan	Trans. Plan	Bike/Ped. Plan	Complete Sts. Plan	Other plans	Notes Notes
Broward County	No	No	No	-	No	-	Comp plan and Long Range Trans. Plan supports Complete Streets initiatives
Coconut Creek	No	No	-	-	-	No (Mainstreet Design Standards) No (Hillsboro Corridor Vision plan)	
Cooper City	No	No	No	-	-	-	
Coral Springs	No	No	-	-	-	No (Community Redevelopment Plan)	University Drive Complete Streets
Dania	No	No	No	No	No	-	
Davie	No	No	No	-	-	-	
Deerfield Beach	No	No	-	-	Yes	-	MLK and 3rd Ave. (SW 9th St. to SW 1 St.)
Fort Lauderdale	Yes	No	-	-	No	No (Downtown Master Plan) No (Vision Zero Plan)	Cordova Rd. (SE 15th St. to SW 17th St.); Vision Zero Plan supports lane elimination
Hallandale Beach	No	No	No	No	-	-	Complete Streets funding in CIP
Hillsboro Beach	-	No	-	-	-	-	
Lauderdale by the Sea	No	-	-	-	-	No (Strategic Plan)	
Lauderdale Lakes	-	No	No	-	No	Yes(Redevelopment plan)	NW 36th Terrace Road Diet
Lauderhill	No	-	-	-	-	-	
Lazy Lake	-	-	-	-	-	-	
Lighthouse Point	No	No	-	-	-	-	
Margate	No	-	-	-	-	No (Redevelopment Plan) No (SR7 Corridor Master Plan)	Transit Oriented Corridor-City Center proposed improvements on Melalueca Drive (Atlantic Blvd. to NW 9th Ct.) and SR (entire corridor)
Miramar	No	No	-	-	No	No	Historic Miramar Complete Streets projects
North Lauderdale	No	-	-	-	-	No	
Oakland Park	No	No	-	No	No	-	Bike/Ped Plan 2017 in production
Parkland	No	No	-	-	-	-	
Pembroke Park	No	-	-	-	-	-	
Pembroke Pines	No	No	-	-	-	No (Green Plan)	
Plantation	No	No	-	-	-	-	
Pompano Beach	No	No	-	No	No	No (Downtown Pompano Connectivity Plan)	MLK Blvd. Complete Streets
Sea Ranch Lakes	-	-	-	-	-	-	·
Sunrise	Yes	No	-	Yes	-		Sunset Strip SW 64 St. (Sunrise Blvd. to Nob Hill Rd. and NW 19th St. to NW 72 Ave.); Springtree Lakes Dr./NW 49 St. (Nob Hill Rd. to Pine Island Rd.); NW 94th Ave. (Oakland Park Blvd. to Commecial Blvd.); Springtree Dr (NW 44th St. to University Drive); Joshlee Blvd. /NW 33rd St. (Oakland Park Blvd. to Nob Hill Rd.); Sunrise Lakes Blvd. (NW 105th Lane to University Drive); Sunrise Blvd. (Sawgrass Expressway Trail to Flamingo Rd.); New River Circle (Weston Rd. to Weston Rd.)
SW Ranches	No	No	ı	-		-	
Tamarac	No	-	-	-	-	No (Parks Plan)	Complete Streets proposed in Parks Plan
West Park	No	-	-	-	-	-	Kimley-Horn Traffic Calming Study; SR7 Transit Oriented Corridor
Weston	No	-	-	Yes	-		Saddle Club Road Road Diet (Lakeview Drive to Weston Road)
Wilton Manors	No	No	-	-	No	-	NE 26th St. Complete Streets design in CIP; Complete Streets proposed on Powerline Rd., Andrews Ave., Dixie Hwy., Wilton Dr.; Transit Oriented Corridor proposed on Oakland Park Blvd. and Andrews Ave.

^{* -} Projects identified in CIP means planned projects are funded

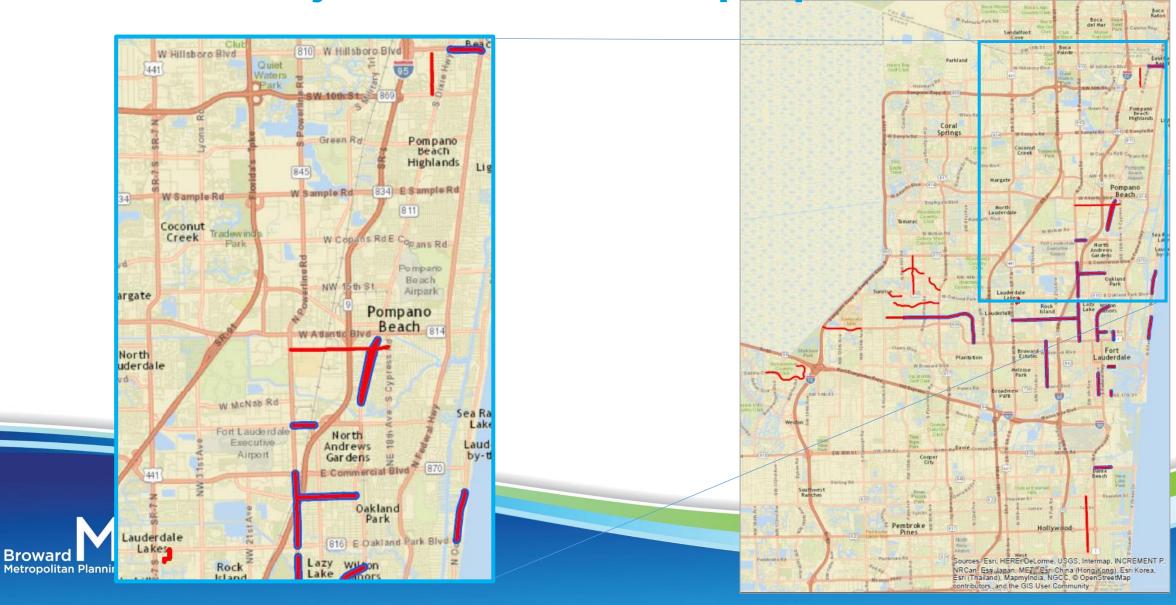
Planned Projects Overview Map Update



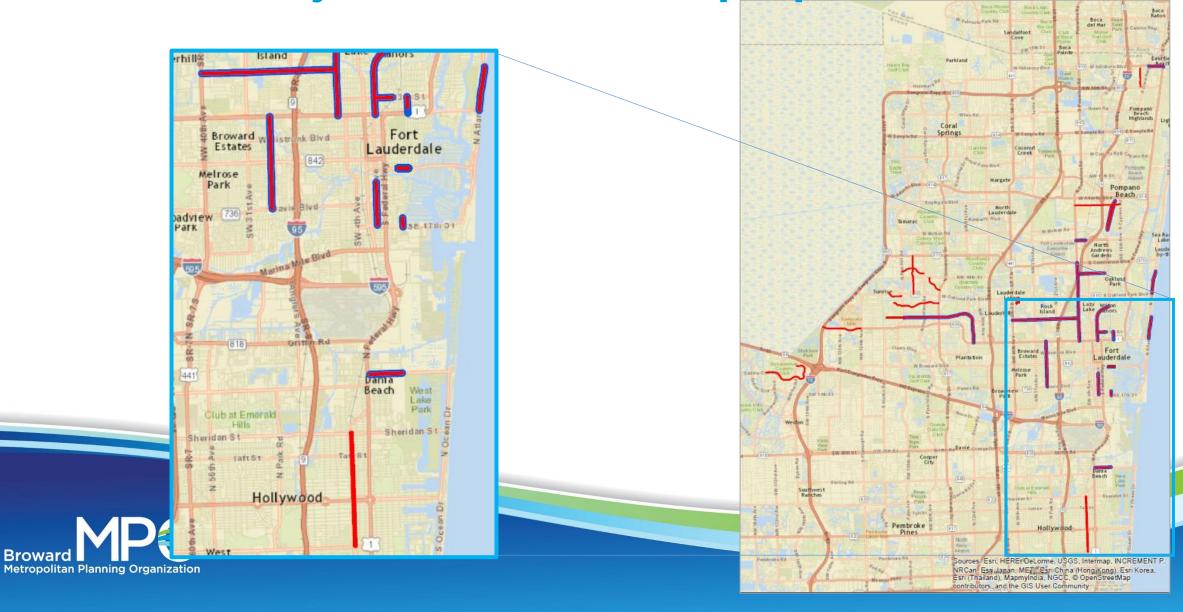


Planned Projects Overview Map Update

Broward



Planned Projects Overview Map Update



Lane Elimination Coordination

- COORDINATION ENTITIES
 - MPO
 - FDOT
 - Broward County Traffic Engineering
 - Broward County Transit
 - Broward County Schools
 - Neighboring Cities
 - Local Emergency Services



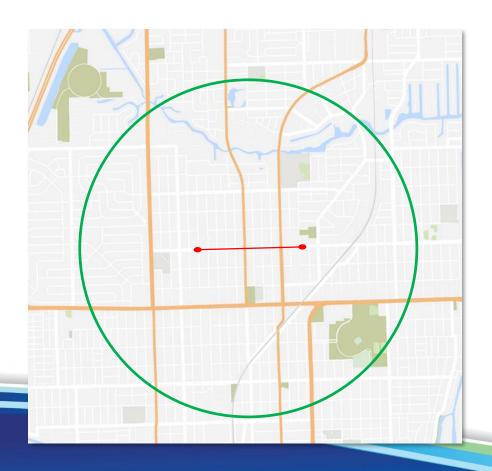
Lane Elimination Coordination

Any Proposed Lane Elimination should encompass a review of the following potential impacts in close proximity to the proposed project:

- Planned Projects
- Street Network Impacts
- Planning Impacts



Lane Elimination Coordination Proximity Review

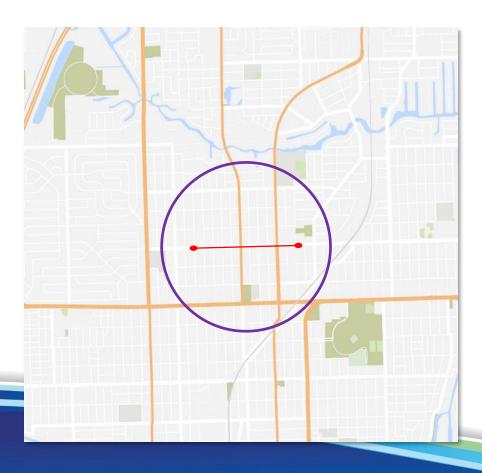


Within 1 Mile:

- Other Lane Elimination Projects
- FDOT roadway projects
- MPO roadway projects
- Planned developments
- Projects in the current CIP that may create street network impact



Lane Elimination Coordination Proximity Review



Within ½ Mile

- Planned or ongoing traffic calming studies
- Planned access management changes
- Bus stops
- Projects in TDP
- One-way streets
- Existing traffic calming



Lane Elimination Coordination LE Status for Tracking

	On FDOT Roads		On Non-FDOT Roads		
	FDOT LE Status	Definition	MPO/Local LE Project Status	Definition	Active/Inactive
	Under Consideration	The project is in early stages of consideration, but no official study has begun. The project is not yet in the FDOT LE review process.	Under Consideration	The project is in early stages of consideration, but no official study has begun	Active
	Planned	The project is in early stages of consideration, possibly with a study underway. FDOT Step 1 Initial Meeting has taken place	Planned	The project is in early stages of consideration, possibly with a study underway	Active
	Under Review	An LE request and concept report have been submitted to FDOT and the LE is being reviewed by FDOT. FDOT Step 2 Interim Meeting and Concept Report are complete	In Coordination	Currently in MPO/Local LE Coordination Process	Active
	Approved	LE request has been reviewed by FDOT and is approved, but no project has been programmed yet. FDOT Step 3 Final Review is complete and the LE was approved	Approved	Completed MPO LE Coordination Process and is approved	Active
	Programmed	LE is approved and funds have been allocated for the design and/or construction of the project	Funded	Project has been planned, coordinated, approved and a funding source has been identified for the entire project	Active
ts	Design	The project is currently being designed			Active
ject	Under Construction	The project is currently being constructed		Active	
Pro	Construction Complete	Project has been constructed and finalized		Inactive	
=	Withdrawn	The project was once under consideration and has been temporarily withdrawn from consideration		Inactive	
₹	Cancelled	The project was once under consideration and has been permanently withdrawn from consideration		Inactive	



Lane Elimination Coordination – Next Steps

- Finalize nomenclature for Lane Elimination status (between FDOT and MPO)
- Update Lane Elimination Database with newly identified projects and their status
- Prepare model run showing countywide impacts to currently known Lane Elimination projects



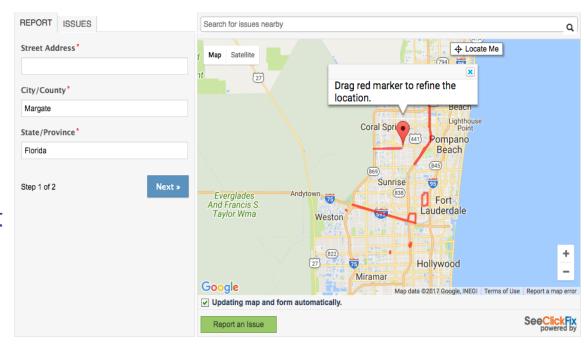
一种态量传染 COMPLETE STREETS MASTER PLAN

Better Streets • Better Communities • Better Broward



Outreach Strategies Update

- High-Tech
 - Website: BetterBroward.org
 - Instant Polling Technology and Digital Input Mapping
 - Eg. http://touchbroward.org/hcz/srb/submit -an-issue/
 - Web-based Communication Through Social Media
 - eTown Hall Meeting





Sample Social Media Post



Kids are more active when walking & biking are safe.
What areas of Broward do you want to see safer
streets in? Take our Survey toward a #BetterBroward
<Link here>



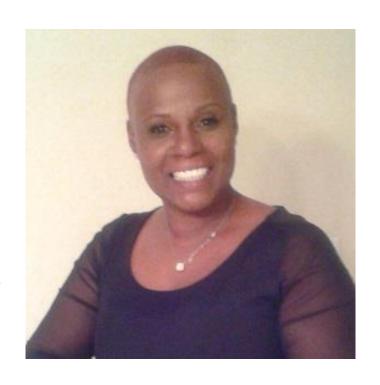
Outreach Strategies Update

- High-Touch
 - Focus Groups
 - One-on-One Interaction
 - Viewing Parties of eTown Hall Meeting



Focus Group #1: Broward Municipal Services District

- October
- Community Member Led
- Leveraging:
 - Safer Paths to Safer Places
 - Walking School Bus
 - Past Complete Streets Community Input Efforts
 - Healthy Community Zone





Focus Group #2: City of Lauderdale Lakes

- October
- Community Member Led
- English and Haitian-Creole
- Leveraging Current Efforts
 - Pedestrian Safety WorkGroup
 - Safe Routes Broward
 - Healthy Community Zone
 - Walk to School Day





Public Involvement Plan Discussion



Next Steps...

- Continue Inter-agency Coordination through PAC
- Develop Project Prioritization
- Refine Needs and Projects



