



# Complete Streets Master Plan

December, 2017

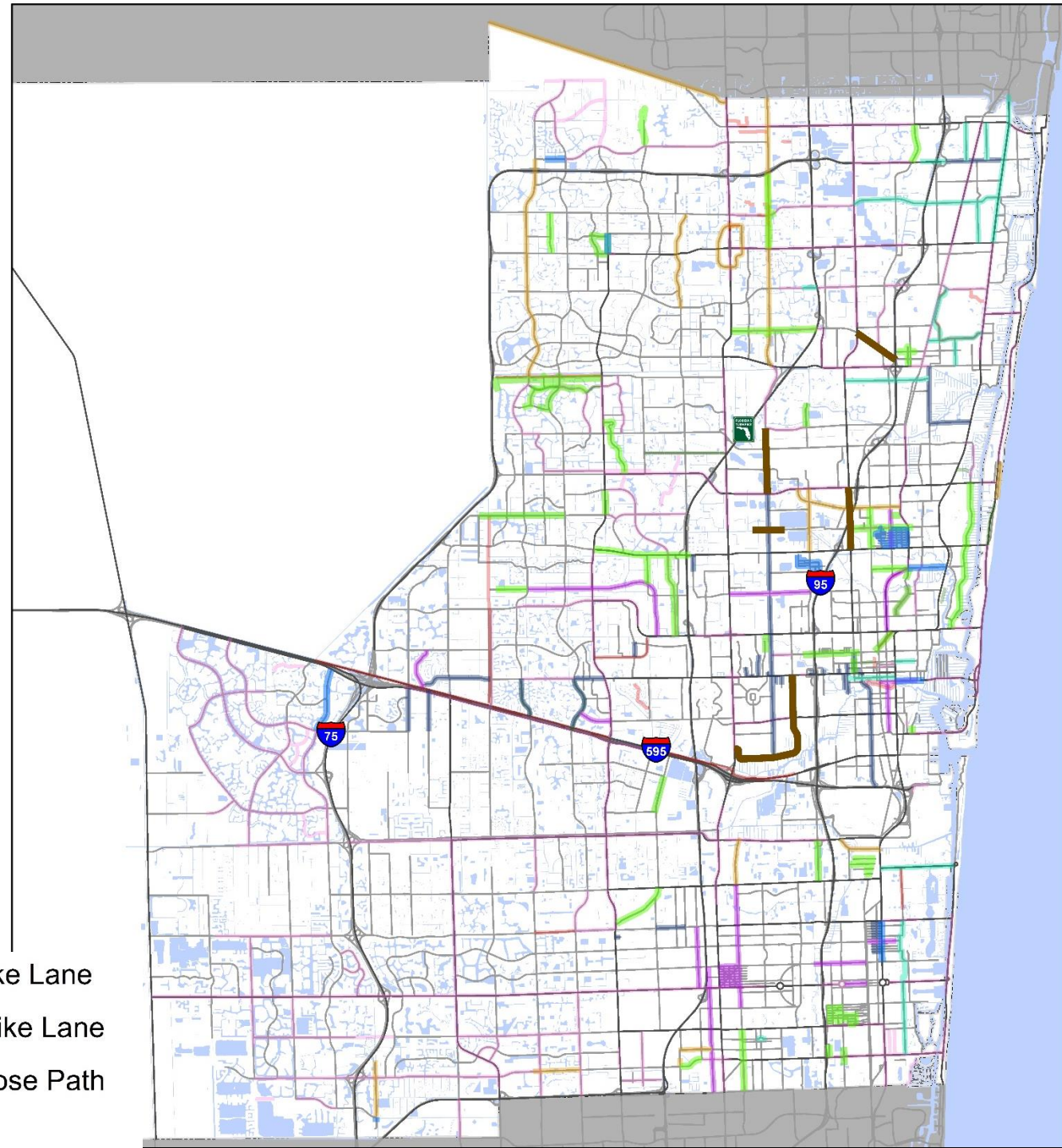
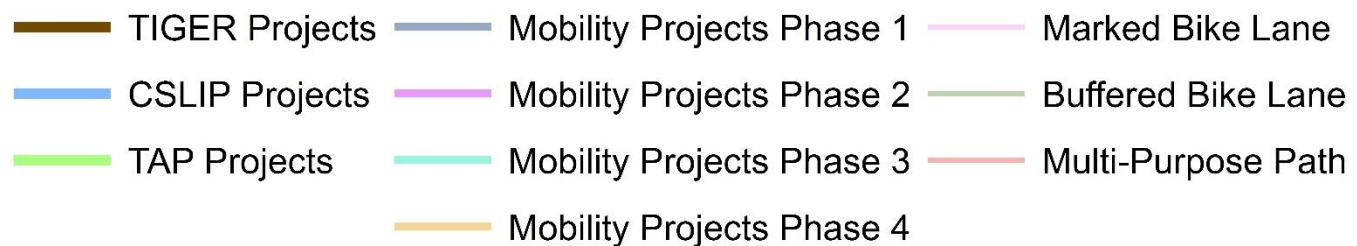
Presented by:

**Stewart Robertson**

Kimley-Horn and Associates, Inc.

# Existing Plus Committed

- Existing Bicycle Facilities
- Mobility Projects Phase 1-4
- Transportation Alternatives Program (TAP)
- Complete Streets/Other Localized Initiative Program (CSLIP)
- Transportation Investment Generating Economic Recovery (TIGER)



# Demand Analysis

## Composite Results

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

LIVE

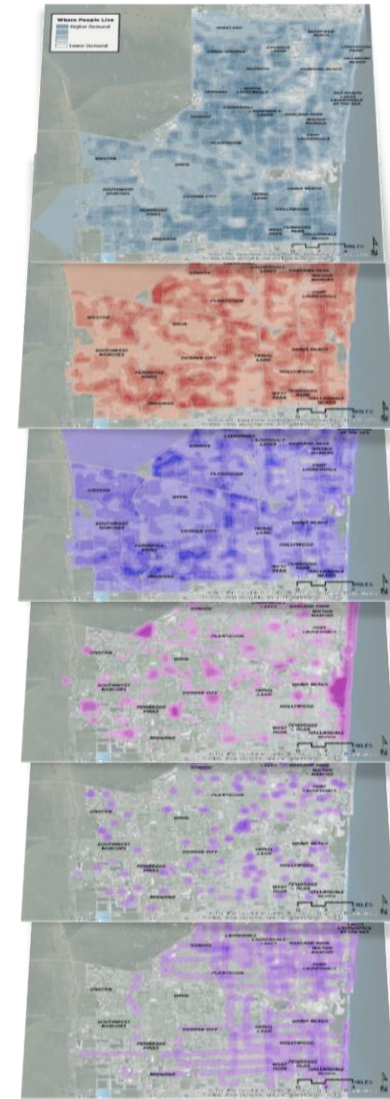
LEARN

WORK

SHOP

PLAY

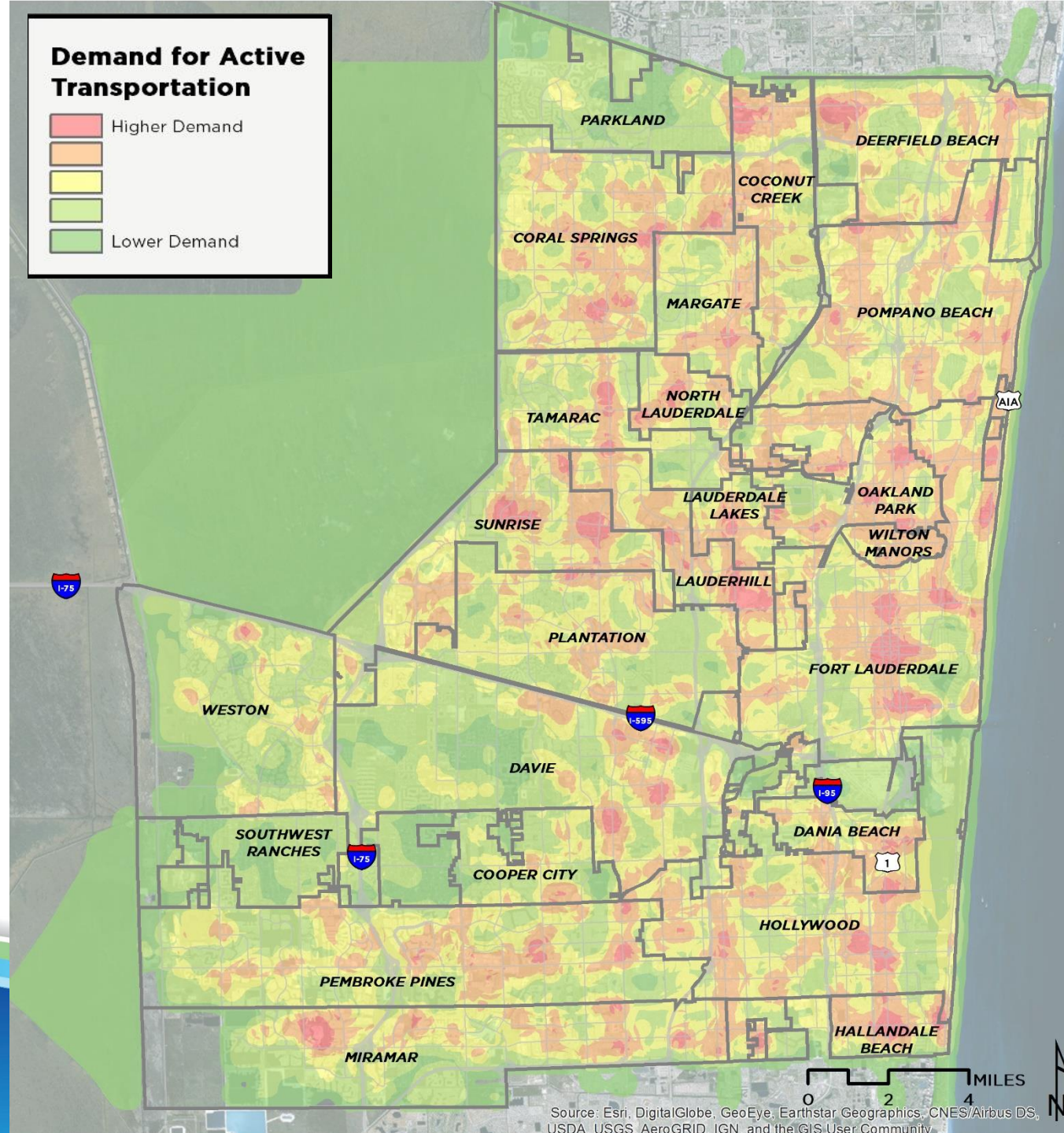
ACCESS TRANSIT





# Demand Analysis Composite Results

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





# 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

AGE



RACE



INCOME



EDUCATIONAL ATTAINMENT



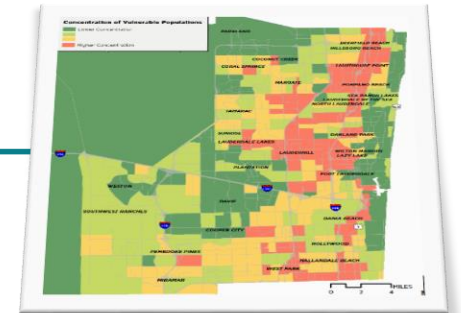
ENGLISH PROFICIENCY



VEHICLE ACCESS



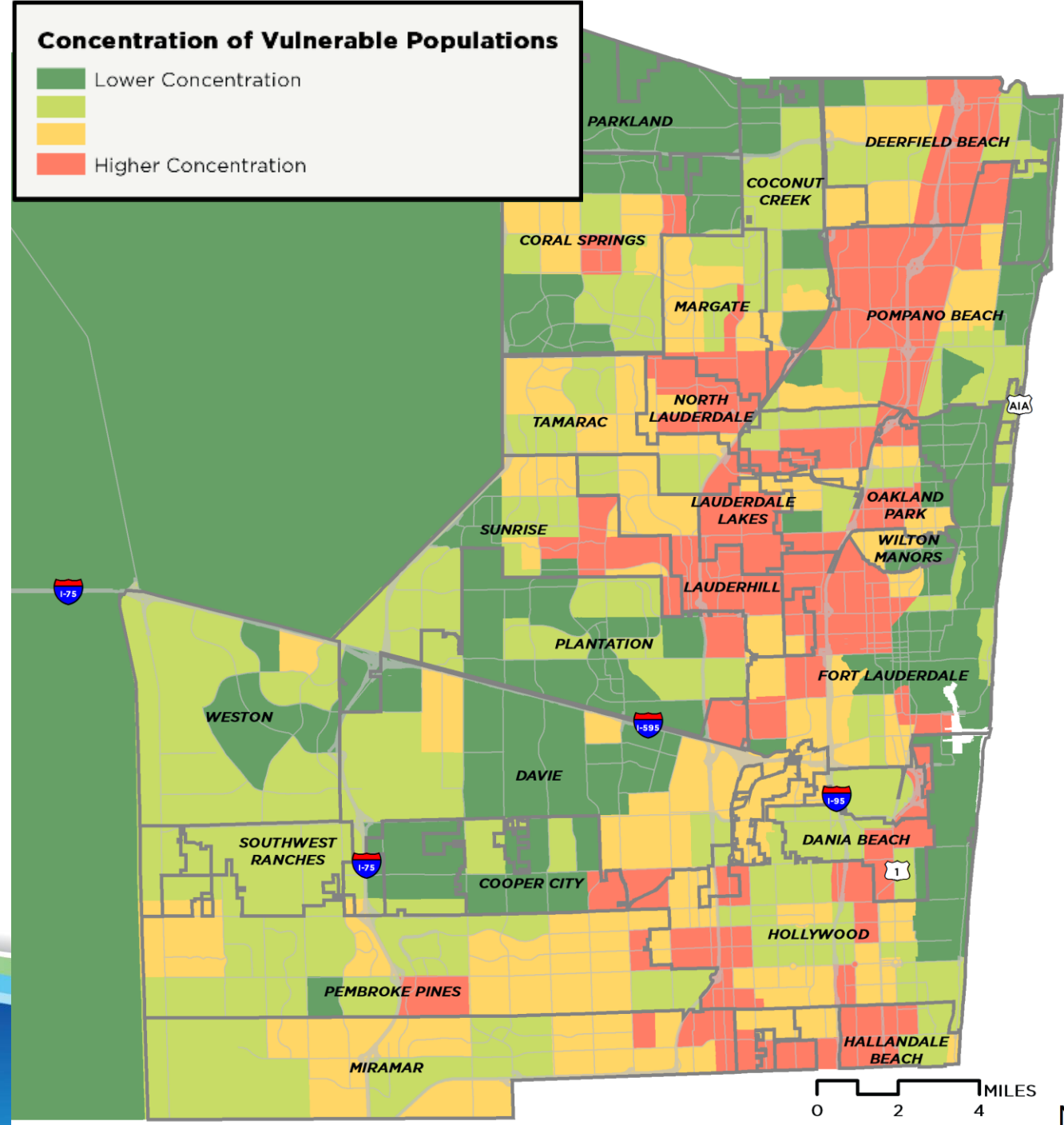
## Composite Equity Map



# Equity Analysis

## Composite Results





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



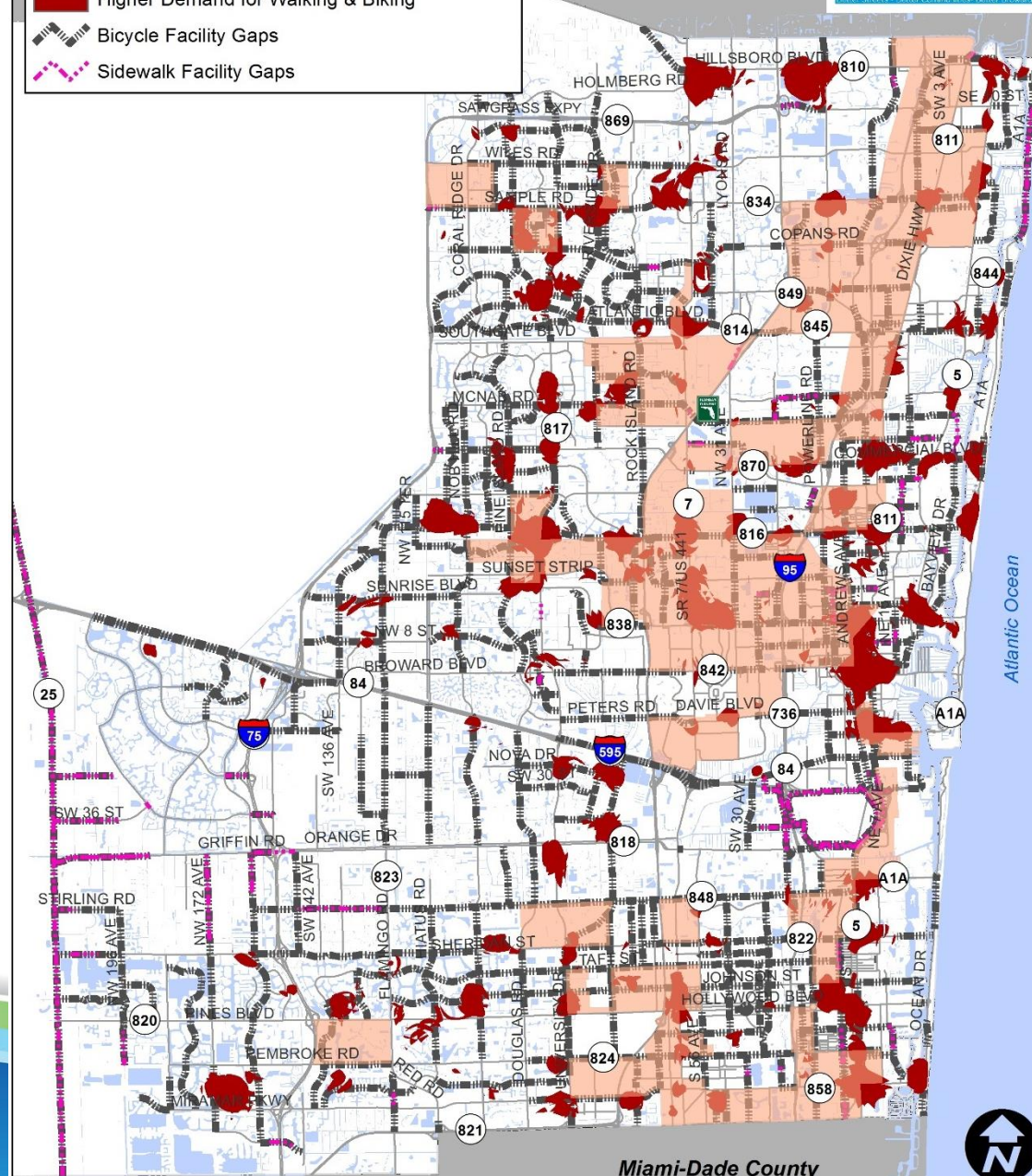
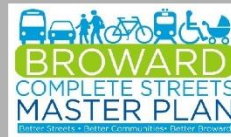


# Project Development

## Project Development

-  Higher Concentration of Vulnerable Populations
-  Higher Demand for Walking & Biking
-  Bicycle Facility Gaps
-  Sidewalk Facility Gaps

Palm Beach County



Miami-Dade County





# Project Development

Bundle Projects →  
Complete Streets  
Projects

**Project Development**

- Bundle Projects
- Complete Streets Projects
- Super Connectors
- Shared Use Path

**Existing Bicycle Facility**

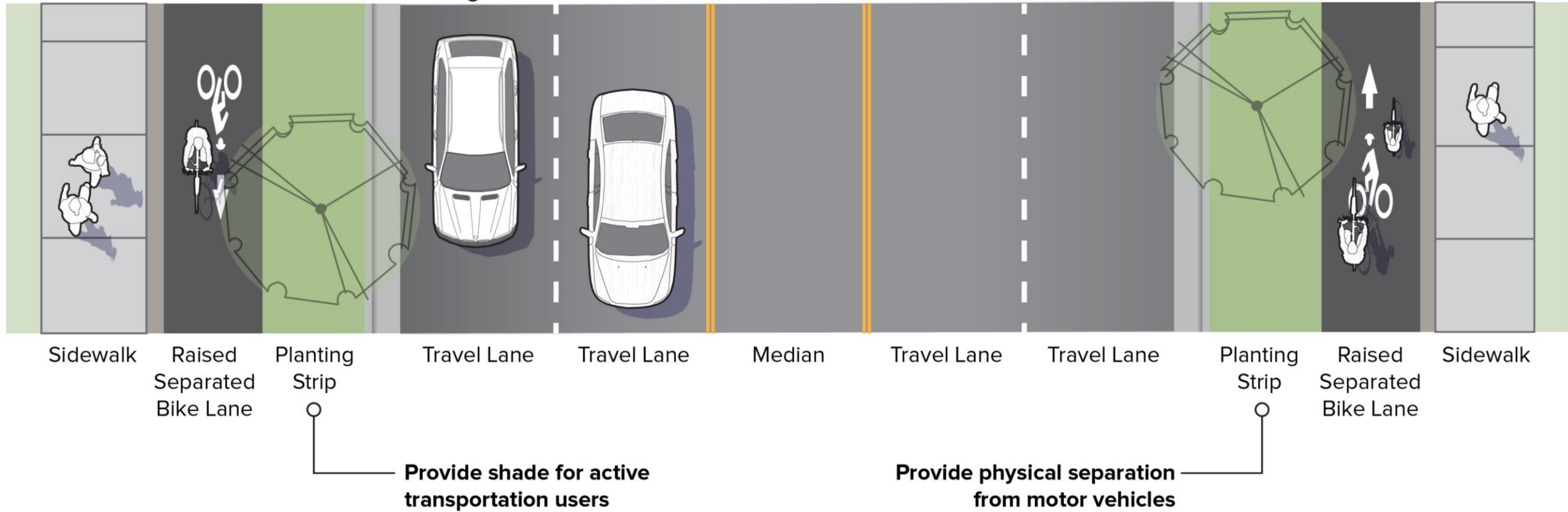
- Marked Bike lane
- Buffered Bike Lane





# Major Roadway – Future Option

In constrained rights-of-way, lane configuration may require modification to accommodate planting strip, bikeway and sidewalk



# Draft CS Master Plan Prioritization Criteria

- Consistent with the Goals and Objectives established in the Commitment 2040 LRTP

**Move People**

**Create Jobs**

**Strengthen  
Communities**





# Draft CS Master Plan Prioritization Criteria

- Builds upon the format and content of the Complete Streets and other Localized Initiatives Program (CSLIP) Evaluation Criteria



## COMPLETE STREETS AND OTHER LOCALIZED INITIATIVES PROGRAM EVALUATION CRITERIA

Total points range in value between 80 – 400. Final results can be filtered and/or sorted by sponsor type, agency type, program category, cost, etc.

	CONNECTIVITY		MOBILITY		SAFETY		ECONOMIC DEVELOPMENT	
<b>COMPLETE STREETS</b> (e.g., bike lane, sidewalk, transit shelter, etc.)	<b>ACTIVITY CENTERS</b> (½ mile buffer)  Projects analyzed and awarded points based on the total number of activity centers (per Broward County data source) within the buffer.	<b>CONNECTION TO EXISTING FACILITY</b>  Projects analyzed and award points based on its termini connection to an existing, like facility. Staff may conduct field reviews to verify connections.	<b>TRAFFIC VOLUME/LANE</b> (200ft buffer)  Projects analyzed and awarded points based on traffic volume per lane within the buffer.	<b>TRANSIT BOARDINGS</b> (½ mile buffer)  Projects analyzed and awarded points based on daily transit boardings occurring within the buffer.	<b>NON-VEHICULAR CRASHES</b> (200ft buffer)  Projects analyzed and awarded points based on total number of pedestrian and bicycle crashes occurring within the buffer during a five-year period.	<b>VEHICULAR CRASHES</b> (200ft buffer)  Projects analyzed and awarded pointed based on total vehicular crashes occurring within the buffer during a five-year time period.	<b>LOW INCOME POPULATION</b> (½ mile buffer)  Projects analyzed and awarded points based on the percentage of the low income population within the buffer.	<b>EMPLOYMENT-POPULATION PROPORTION</b> (½ mile buffer)  Projects analyzed and awarded points based on the proportion of the total employment and population within the buffer area.
<b>SAFETY &amp; SECURITY</b> (e.g., traffic calming, intersection reconfig., etc.)	<b>Scale</b> 3+ 50 points 1-2 30 points 0 10 points	<b>Scale</b> 2 sides 50 points 1 side 30 points 0 sides 10 points	<b>Scale</b> 10 - 50 points 	<b>Scale</b> 10 - 50 points 	<b>Scale</b> 10 - 50 points 	<b>Scale</b> 10 - 50 points 	<b>Scale</b> 10 - 50 points 	<b>Scale</b> 100:0 Emp.-Pop. 10 points 90:10 Emp.-Pop. 20 points 80:20 Emp.-Pop. 30 points 70:30 Emp.-Pop. 40 points 60:40 Emp.-Pop. 50 points 50:50 Emp.-Pop. 50 points 40:60 Emp.-Pop. 50 points 30:70 Emp.-Pop. 40 points 20:80 Emp.-Pop. 30 points 10:90 Emp.-Pop. 20 points 0:100 Emp.-Pop. 10 points
<b>SUSTAINABILITY INITIATIVES</b> (e.g., Mobility Hub, greenway, etc.)	<b>Data Source</b> Broward County (2013)	<b>Data Source</b> Field Review / Google Earth	<b>Data Source</b> Broward MPO (2013)	<b>Data Source</b> BCT and SFRTA (2014)	<b>Data Source</b> Signal Four, University of Florida (2012-2016)	<b>Data Source</b> Signal Four, University of Florida (2012-2016)	<b>Data Source:</b> ACS 2012, 5-year average (Census Block Group)	<b>Data Source</b> SERPM 7.0 (2010)
<b>TECHNOLOGY ADVANCEMENTS</b> (e.g., ITS, upgraded signalization, etc.)	<b>Summation</b> Points, 10, 30, and 50, are awarded based on the total number of activity centers observed within the buffer area.	<b>Discrete</b> Points, 10, 30, and 50, are awarded based on the number of connections to existing, like facilities.	<b>Ordinal</b> The observed data within the buffer area are sorted from the highest to lowest value and assigned a rank order from "1" to the maximum number of projects. If projects have the same data value, the same rank is assigned. These ranks are then 'normalized' and points, between 10 and 50, are awarded.				<b>Proportion</b> Points, between 10 and 50, are awarded based on the proportion of employment to population within the buffer area.	

# Draft CS Master Plan Prioritization Criteria

## Connectivity

- Activity Centers
- Walk Score
- High Density Land Areas

## Mobility

- Transit Boardings/Alightings
- Traffic Counts

## Safety

- Pedestrian/Bicycle Crashes
- Intersection/Crossing Density

## Economic Development

- Equity – Concentration of Vulnerable Populations
- Equitable Healthography

# Lane Elimination Coordination Progress

- ✓ Planned Projects Review
- ✓ Lane Elimination Map
- Lane Elimination Coordination
  - ✓ Identified Coordination Entities
  - Proximity Review-Updated
  - ✓ Lane Elimination Status Table
- Network analysis of impacts



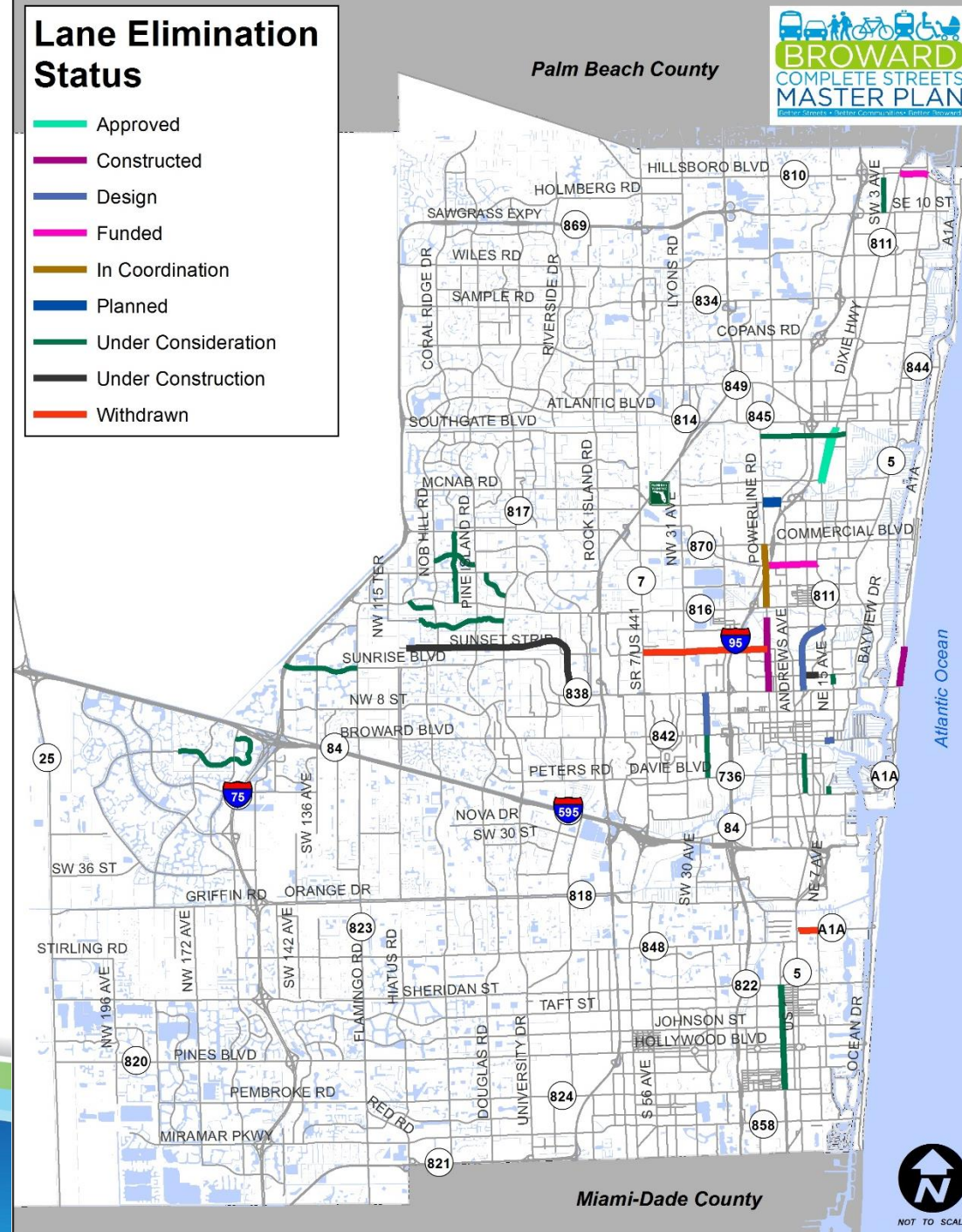


# Lane Elimination Research Results

City	Local Name	Begin Project Limits	End Project Limits	Lane Reconfig Desc	State Road #	Source	Lane Elimination Status	Active?	FM #
Dania Beach	Dania Beach Blvd	NE 1st Ave	Gulfstream Rd	6L to 4L	A1A	FDOT	Withdrawn	Inactive	437847.1
Deerfield Beach	SW MLK Jr. Ave/ SW 3rd Ave	SW 9th St	SW 1st St	-	-	Broward CS Master Plan- Research	Under Consideration	Active	-
	Hillsboro Blvd	Dixie Hwy	US 1	6L to 4L	810	FDOT	Funded	Active	430602.1
Fort Lauderdale	Birch Rd	Bayshore Dr	Vista Mar Dr	-	-	City of Fort Lauderdale	Under Consideration	Active	-
	NW 27th Ave	Broward Blvd	Sunrise Blvd	-	-	City of Fort Lauderdale	Under Consideration	Active	-
	NW 27th Ave	Davie Blvd	Broward Blvd	-	-	City of Fort Lauderdale	Design	Active	-
	Las Olas Blvd	SE 11th Ave	SE 15th Ave	-	-	City of Fort Lauderdale	Design	Active	-
	NE 13th St	NE 4th Ave	NE 9th Ave	-	-	City of Fort Lauderdale	Under Construction	Active	-
	A1A	Oakland Park Blvd	Flamingo Rd	4L to 2L	A1A	City of Fort Lauderdale	Under Construction	Active	-
	A1A	Sunrise Blvd	NE 18th Street	4L to 2L	A1A	City of Fort Lauderdale	Construction Complete	Active	-
	SE 3rd Ave	SE 17th St	SE 6th St	-	-	City of Fort Lauderdale	Under Consideration	Active	-
	Cypress Creek Rd	Powerline Rd	Andrews Ave	-	-	City of Fort Lauderdale	Planned	Active	-
	NE 15th Ave	NE 11th St	NE 13th St	-	-	City of Fort Lauderdale	Under Consideration	Active	-
NW 19th St	State Road 7	Powerline Rd	-	-	City of Fort Lauderdale	Withdrawn	Active	-	
Cordova Rd	SE 15th St	SE 17th St	-	-	City of Fort Lauderdale	Under Consideration	Active	-	
Fort Lauderdale / Wilton Manors	Powerline Rd	Sunrise Blvd	NW 29th St	4L to 2L	845	FDOT/City of Fort Lauderdale	Construction Complete	Active	428731.1
	NE 4th Ave	Sunrise Blvd	NE 26th St	-	811	FDOT/City of Fort Lauderdale	Design	Active	431657.1
Hollywood	N Dixie Hwy	Pembroke Rd	Sheridan St	-	-	Broward MPO	Under Consideration	Active	-
	N 21st Ave	Pembroke Rd	Sheridan St	-	-	Broward MPO	Under Consideration	Active	-
A1A	Hollywood Blvd	Sheridan St	4L to 2L	A1A	FDOT	Cancelled	Active	-	
Lauderdale Lakes	NW 36th Terr	NW 29th St	Oakland Park Blvd	-	-	Broward CS Master Plan- Research	Under Consideration	Active	-
Oakland Park	Powerline Rd	Oakland Park Blvd	Commercial Blvd	-	845	FDOT	In Coordination	Active	440746.3
	Prospect Rd	Poweline Rd	Dixie Hwy	-	-	Broward MPO	Funded	Active	435925.1
Pompano Beach	Dixie Hwy	McNab Rd	SW 2nd St	-	811	FDOT	Approved	Active	427011.2
Sunrise	Joshlee Blvd	Oakland Park Blvd	Nob Hill Rd	-	-	Broward CS Master Plan- Research	Under Consideration	Active	-
	New River Circle	Weston Rd	Weston Rd	-	-	Broward CS Master Plan- Research	Under Consideration	Active	-
	Springtree Dr	NW 44th St	University Dr	-	-	Broward CS Master Plan- Research	Under Consideration	Active	-
	NW 94th Ave	Oakland Park Blvd	Commercial Blvd	-	-	Broward CS Master Plan- Research	Under Consideration	Active	-
	Sunrise Blvd	Sawgrass Express	Flamingo Rd	-	-	Broward CS Master Plan- Research	Under Consideration	Active	-
	Sunrise Lakes Blvd	NW 105th Ln	University Dr	-	-	Broward CS Master Plan- Research	Under Consideration	Active	-
	Springtree Lakes Dr	Nob Hill Rd	Pine Island	-	-	Broward CS Master Plan- Research	Under Consideration	Active	-
Sunset Strip	NW 109th Ave	Nob Hill Rd	-	-	Broward MPO	Under Construction	Active	438123.1	
Weston	Saddle Club Rd	Lakeview Dr	Weston Rd	-	-	Broward CS Master Plan- Research	Under Consideration	Active	-

## Lane Elimination Status

- Approved
- Constructed
- Design
- Funded
- In Coordination
- Planned
- Under Consideration
- Under Construction
- Withdrawn



# Master Plan Outreach

- Provide opportunities for community input throughout the development of the Master Plan with an emphasis on obtaining input from hard to reach communities.
- Audience – All of Broward County
  - Target Populations - Broward County Municipal Services District, City of Lauderdale Lakes, City of North Lauderdale, City of Lauderdale Hill, City of Pembroke Park, City of Miramar, City of Hallandale Beach, and City of West Park

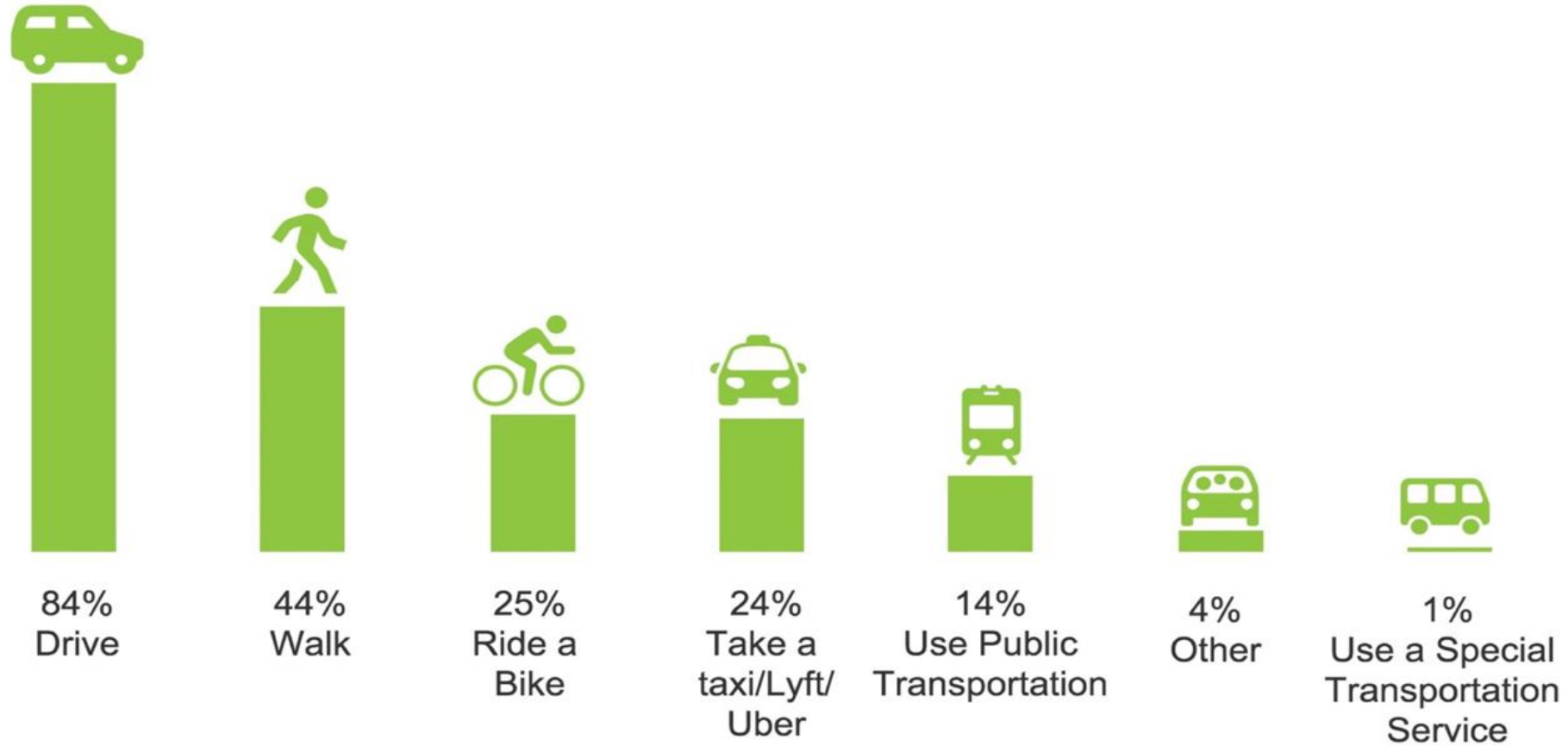




# Updates on Outreach Strategies

- High-Touch
  - Focus Groups
    - Lauderdale Lakes – October 25, 2017
    - Dania Beach – October 26, 2017
    - Discussed how participants preferred to get around their neighborhood, the places they like to go and what they think about the traffic, walking, riding a bike, or taking transit in their neighborhood
  - One-on-One Interactions
    - Conducted 100 interactions with Broward residents to promote survey and provide Complete Streets education
    - 64 participated in the paper survey

## How Are Broward Residents Getting Around Their Community



Survey participants are allowed to select more than one choice.



# Next Steps...

- Refine project needs development
- Apply criteria to rank projects
- Develop draft Master Plan for March, 2018 MPO Board Meeting

