Statewide Non-Motorized Traffic Monitoring Program (NMTM)

Transit Multi-Modal Data Committee

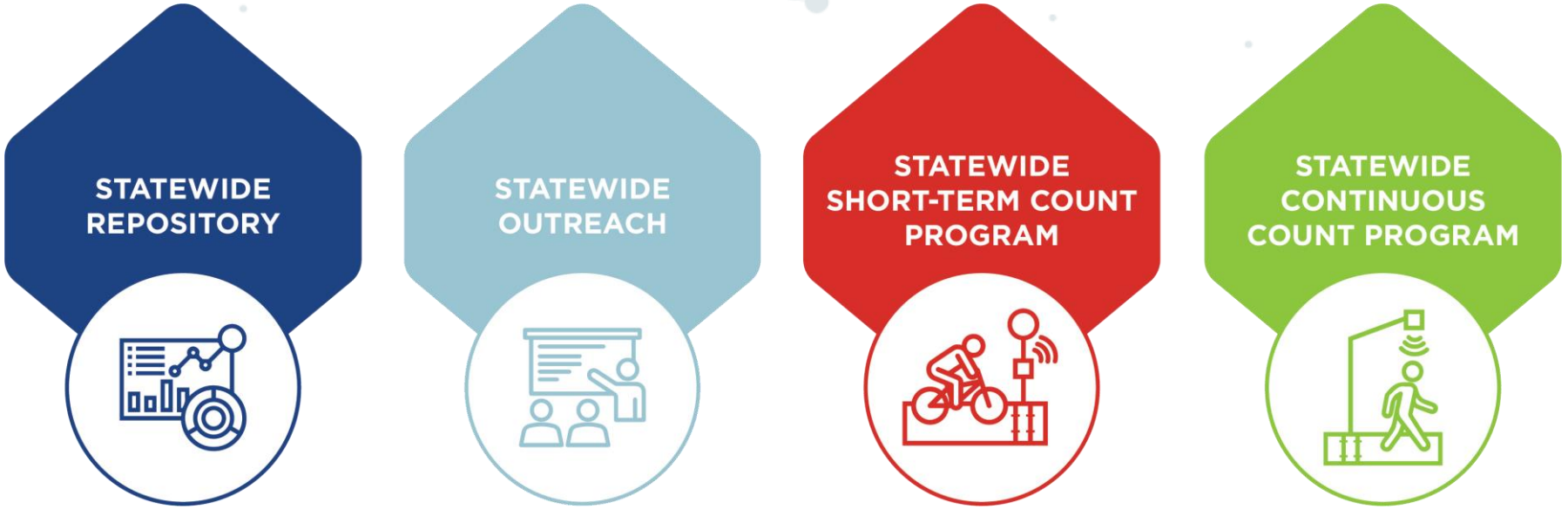
August 2022

Agenda

- Program Overview
- Scope of data collected
- Data Collection methods
- Data Management
- Program next steps
- Questions

Non-motorized Traffic Monitoring Program

Program Purpose: To collect statistically valid bicycle and pedestrian (non-motorized) traffic volume data so that traffic volume statistics can be calculated and published annually.



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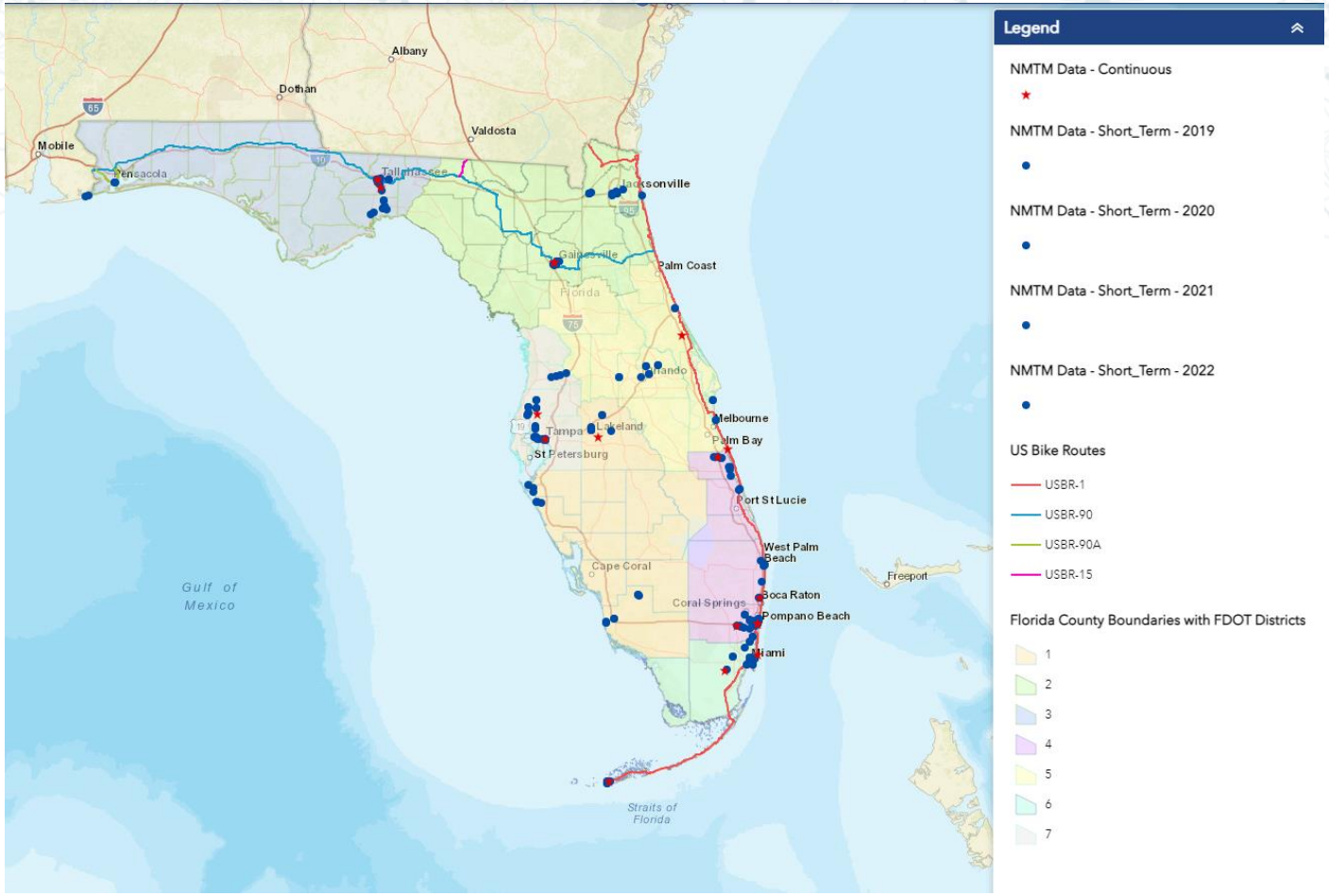
Scope of data collected

- Typical statewide count locations are:
  - Trails/Shared use paths
  - Sidewalks
  - Bridges/Causeways
  - Complete Streets
  - Separated bike lanes
  - Transit Hubs/Stops
  - Roadway Mid-block crossings



Short-term Counts

- 130 short-term counts sites statewide
  - Portable equipment makes it easy to adjust your location, if necessary
  - Short-term Count results provide FDOT with data needed to make decisions on continuous count stations
  - Short-term counts include bicycle pneumatic tubes, infrared sensors, and smart cameras

Short-term Technology

Portable Infrared

Smart Camera

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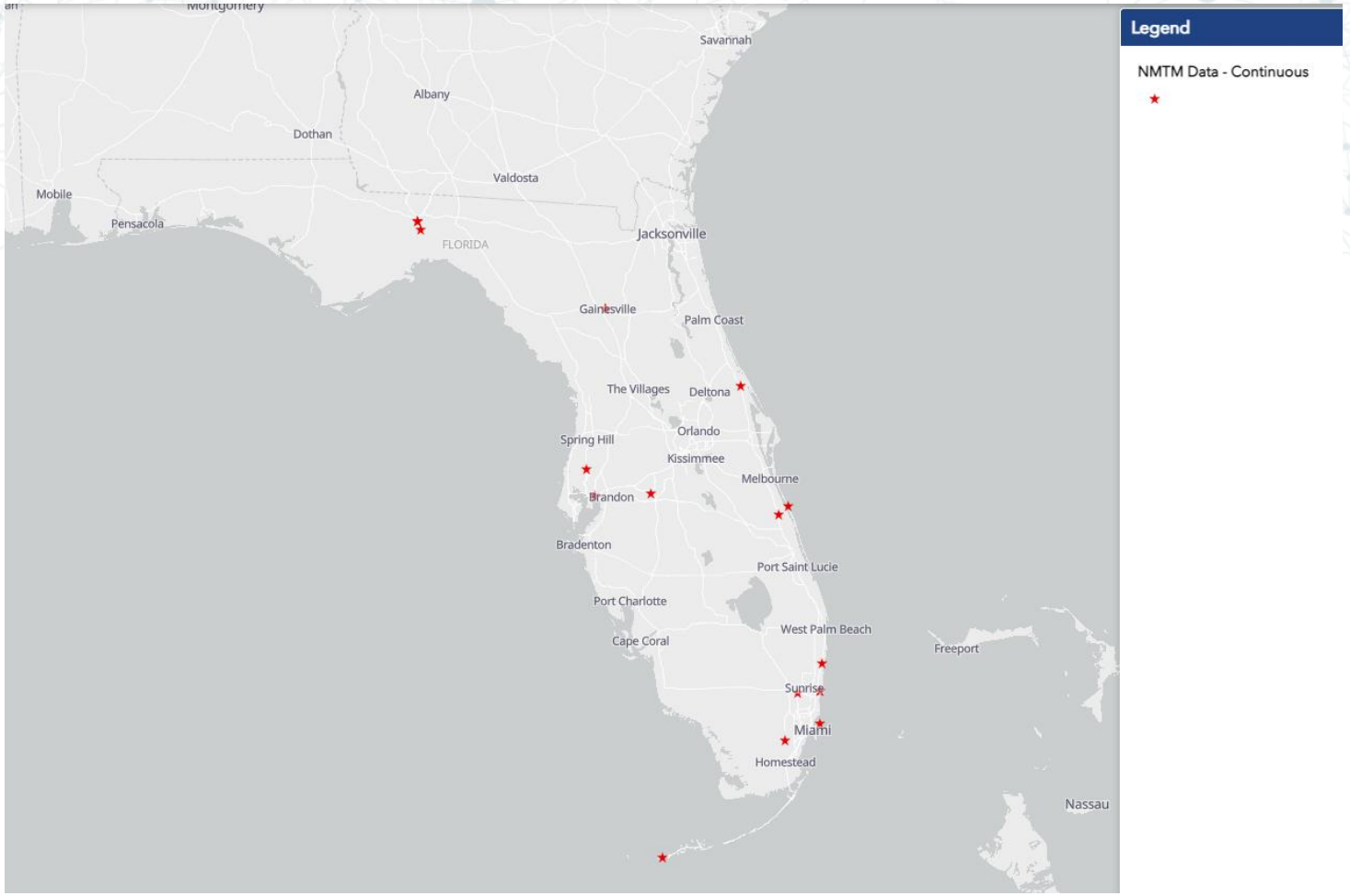
Continuous Counts

- 19 Active Continuous Counters
- Continuous counters are on 24/7/365
- 22 new sites being identified for 2022-23 continuous count installations
  - Continue refining site selection criteria
  - Testing new technologies that work best on roadways



Continuous Count Technology

- All counters have various strengths and weaknesses
- It is extremely important you know what your counters can count, ***and what they can not count***
  - There are some places that current technology can not count accurately

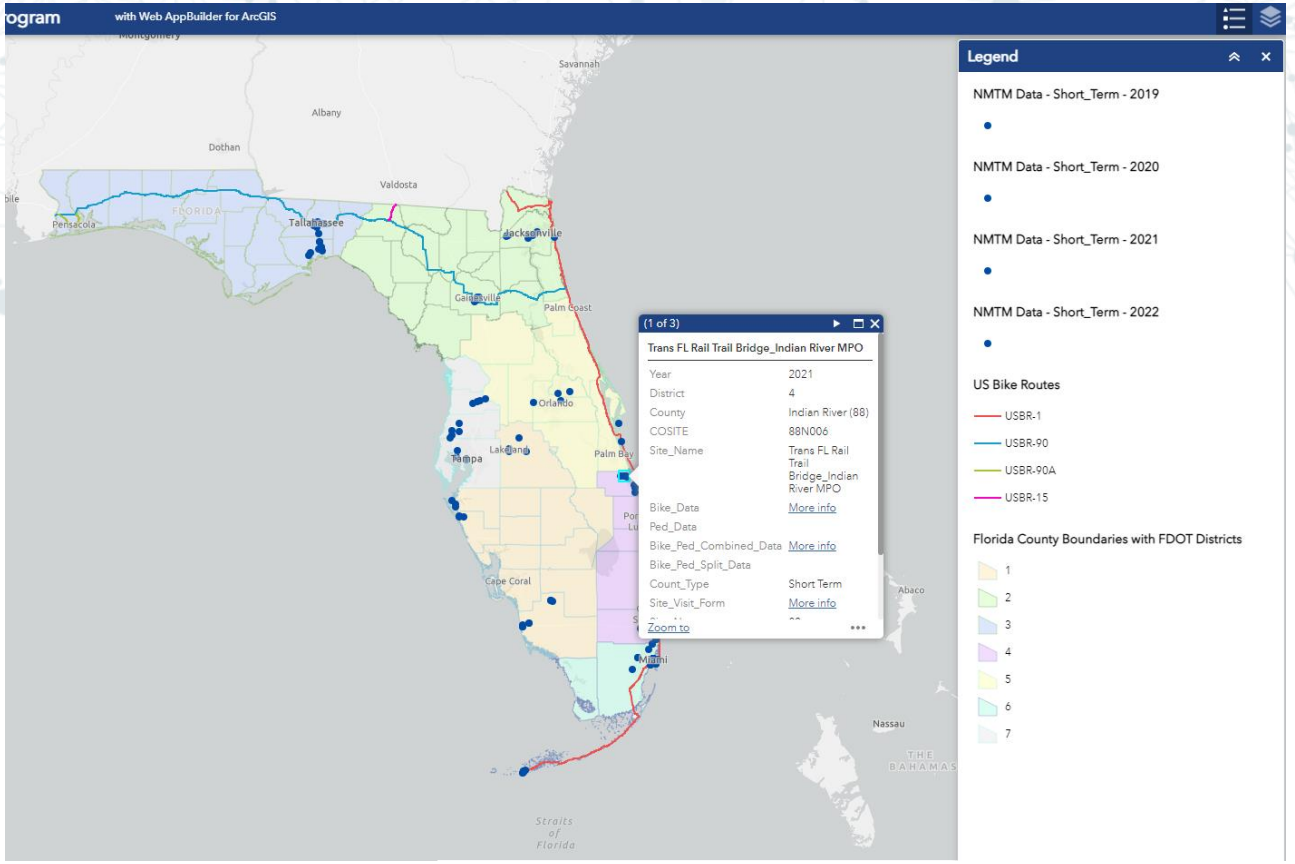
Continuous Technology

Permanent side-fire infrared with loops

Permanent overhead infrared with piezos

Data Repository

- All counts in program are publicly accessible
- All FDOT non-motorized traffic data is being stored on this map
  - https://fdot.maps.arcgis.com/apps/webappviewer/index.html?id=df6696c128514bb6b0c6710758fd050b
- TDA shares results with local partners as soon as data is available



Trans Fl Rail Trail Bridge, Indian River Cty

FLORIDA DEPARTMENT OF TRANSPORTATION
SHORT-TERM NON-MOTORIZED VOLUME COUNTS

SITE CODE: 88N006
LOCATION: Trans FL Rail Trail bridge
GPS: 27.771863, -80.550374
COUNT TYPE: Ped+Bike (Trafx IR)
START DATE: 4/9/2022

DISTRICT: D4
COUNTY: Indian River
TYPE: Trail
DIRECTION/SIDE: EB-WB / South SIDE
END DATE: 4/22/2022

	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Time	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	Total
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2
2:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	1	0	0	0	1	0	0	2	0	0	1	0	0	0	5
5:00 AM	3	2	0	3	0	1	2	1	1	1	0	0	1	0	15
6:00 AM	11	8	9	8	6	12	5	15	7	11	5	17	11	8	133
7:00 AM	12	23	9	10	10	18	0	17	21	6	6	7	10	8	157
8:00 AM	10	16	9	8	7	7	1	14	9	10	10	7	6	10	124
9:00 AM	38	17	9	13	5	14	17	12	10	13	3	8	5	12	176
10:00 AM	16	23	4	7	2	7	5	8	6	5	7	3	4	6	103
11:00 AM	10	15	13	10	2	5	4	7	12	0	9	2	1	6	96
12:00 PM	12	20	7	4	2	4	0	3	1	4	4	4	1	1	67
1:00 PM	26	11	10	4	8	2	3	0	14	2	7	2	4	0	93
2:00 PM	5	13	6	7	2	4	0	3	0	1	6	4	9	0	60
3:00 PM	3	12	6	8	3	4	5	2	4	4	7	9	7	13	87
4:00 PM	16	12	17	13	14	11	2	1	9	3	11	13	8	2	132
5:00 PM	4	13	19	30	13	15	3	7	12	11	48	26	28	15	244
6:00 PM	8	4	20	22	3	12	6	5	4	6	24	15	19	14	162
7:00 PM	1	0	0	0	1	0	0	0	1	1	0	0	0	0	4
8:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	1	3
9:00 PM	0	1	0	0	1	0	0	0	0	0	1	1	1	0	5
10:00 PM	0	0	2	0	0	0	2	0	0	1	0	0	0	0	5
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	176	192	140	147	80	117	56	98	111	79	149	118	115	96	1674

WEEKDAY DAILY AVG: 121 **AVG AM PEAK:** 17 **WEEKDAY TOTAL:** 726 **AM Peak:** 9:00 AM
WEEKEND DAILY AVG: 144 **AVG PM PEAK:** 20 **WEEKEND TOTAL:** 577 **PM Peak:** 5:00 PM

*** Weekday Daily Average based on Tuesday, Wednesday and Thursday Daily Volume*
*** Weekend Daily Average based on Saturday and Sunday Daily Volume*

NOTES:

FLORIDA DEPARTMENT OF TRANSPORTATION
SHORT-TERM NON-MOTORIZED VOLUME COUNTS

SITE CODE: 88N006
LOCATION: Trans FL Rail Trail bridge - Indian River MPO
GPS: 27.771863, -80.550374
COUNT TYPE: Bicycle Counts (MC)
START DATE: 4/9/2022

DISTRICT: D4
COUNTY: Indian River
TYPE: Trail
DIRECTION/SIDE: EB-WB / South SIDE
END DATE: 4/22/2022

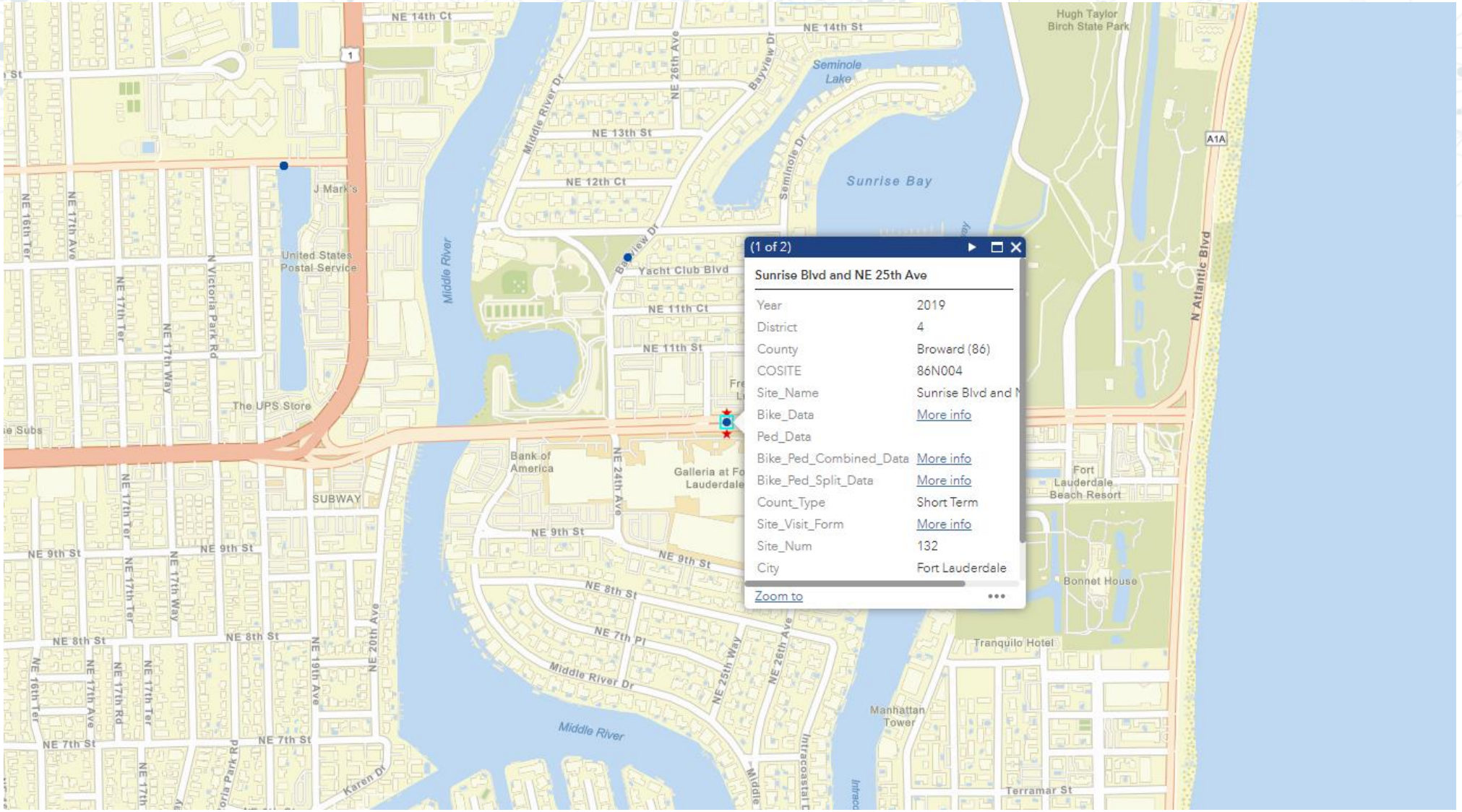
	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Time	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	Total
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
6:00 AM	0	0	0	0	2	0	0	0	0	0	3	0	0	0	5
7:00 AM	3	2	4	1	6	2	1	3	3	0	4	5	5	0	39
8:00 AM	4	6	6	3	8	14	7	8	14	0	3	5	8	0	86
9:00 AM	7	8	4	1	6	6	1	14	15	7	4	14	0	7	94
10:00 AM	23	10	7	14	4	31	8	10	4	13	5	0	3	6	138
11:00 AM	7	15	4	5	1	6	21	9	14	10	5	6	1	2	106
12:00 PM	12	10	5	17	4	10	4	9	6	0	9	4	1	10	101
1:00 PM	9	16	8	8	2	2	0	4	5	4	0	3	2	3	66
2:00 PM	14	9	2	0	10	4	0	3	14	5	3	4	2	2	72
3:00 PM	2	12	2	5	5	4	0	6	2	0	3	2	6	0	49
4:00 PM	4	6	5	6	5	0	0	2	0	10	3	4	3	4	52
5:00 PM	4	5	5	12	5	2	4	1	7	2	1	3	5	4	60
6:00 PM	1	2	4	4	13	7	3	0	17	2	12	0	10	2	77
7:00 PM	6	2	0	3	0	6	0	2	2	4	9	4	2	10	50
8:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Total	96	103	58	79	71	95	49	74	103	57	64	54	48	51	1002

WEEKDAY DAILY AVG: 69 **AVG AM PEAK:** 14 **WEEKDAY TOTAL:** 411 **AM Peak:** 10:00 AM
WEEKEND DAILY AVG: 94 **AVG PM PEAK:** 11 **WEEKEND TOTAL:** 376 **PM Peak:** 12:00 PM

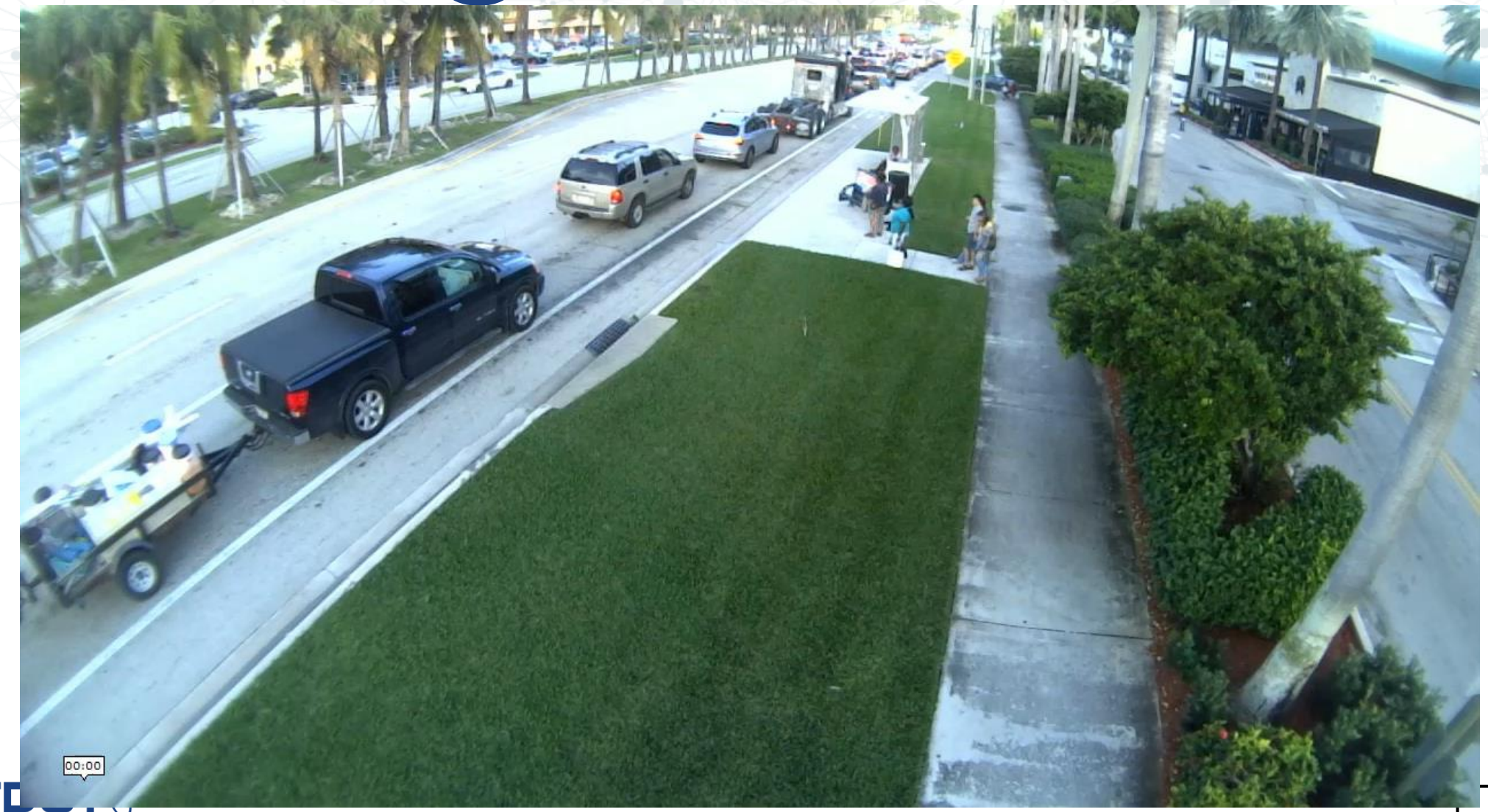
*** Weekday Daily Average based on Tuesday, Wednesday and Thursday Daily Volume*
*** Weekend Daily Average based on Saturday and Sunday Daily Volume*

NOTES:

Sunrise Blvd @ NE 25th Ave



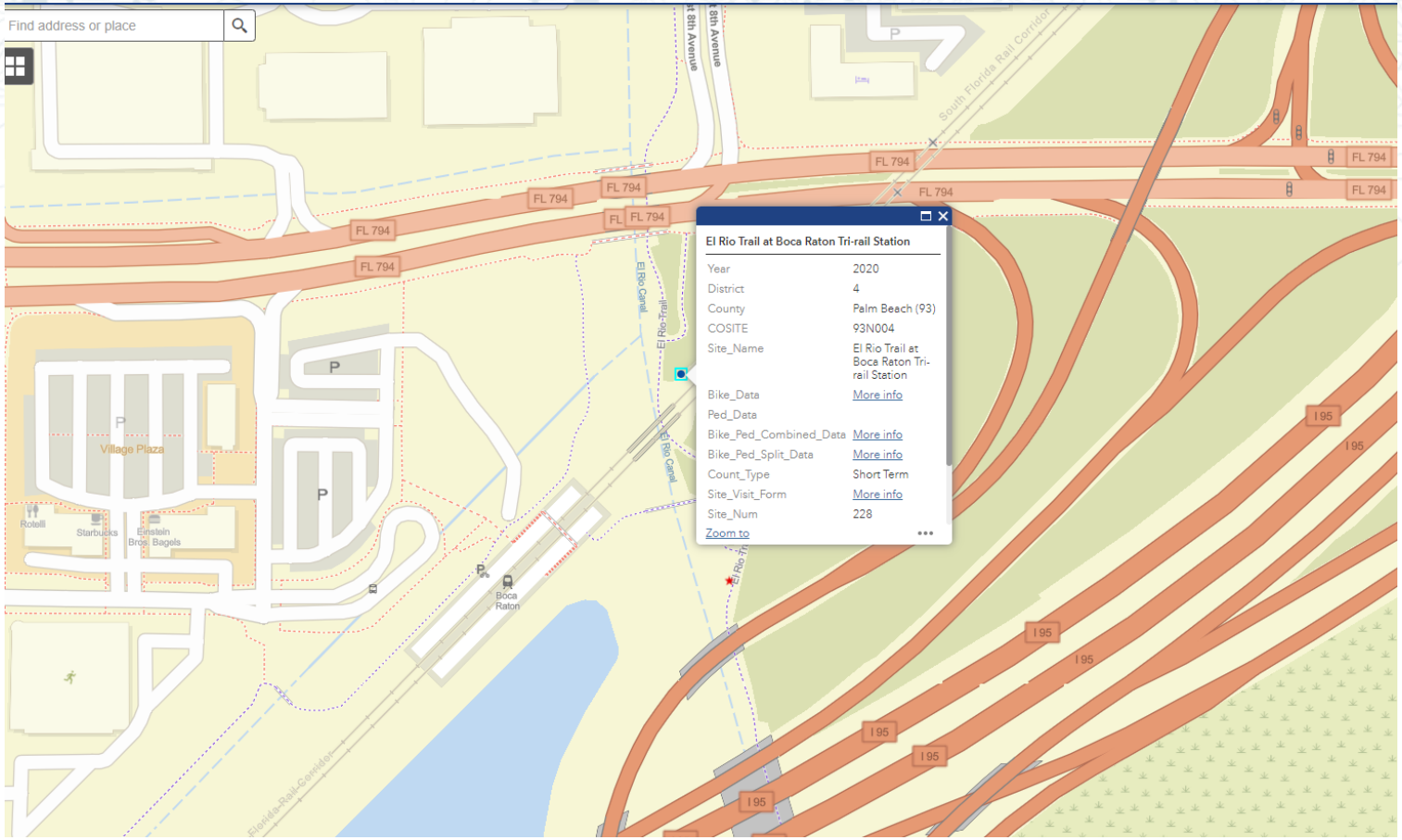
Sunrise Blvd @ NE 25th Ave



Sunrise Blvd @ NE 25th Ave

Sunrise Blvd @ NE 25th Ave

Boca Raton Tri-Rail @ El Rio Trail



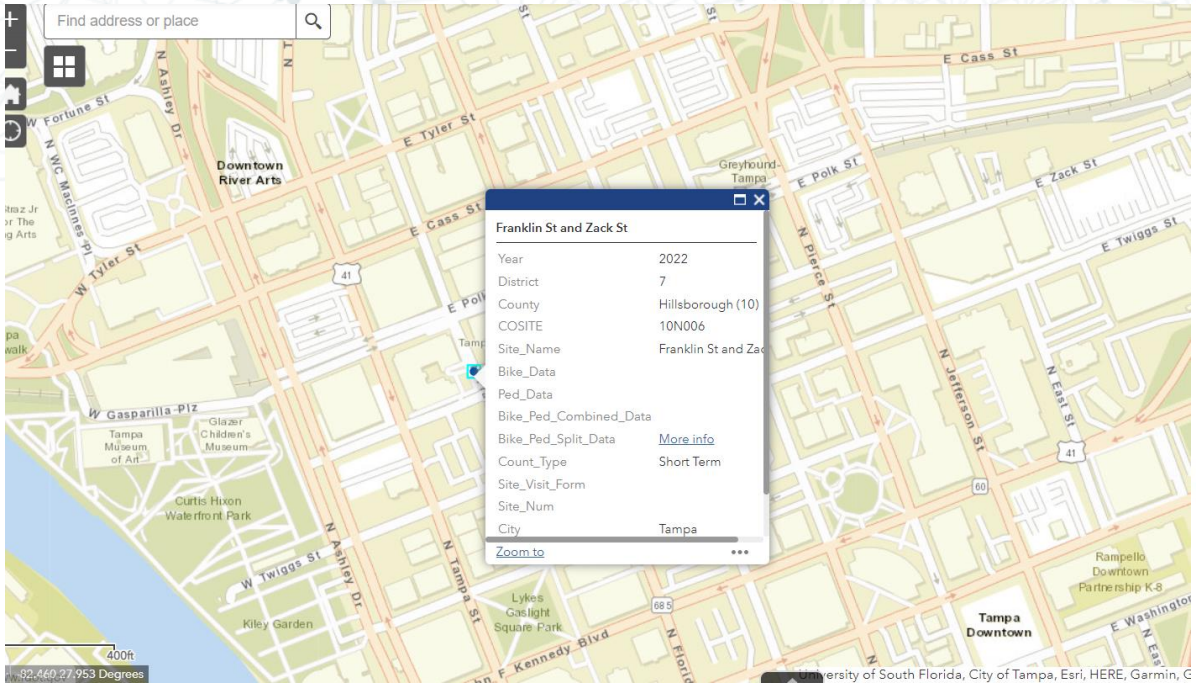
93N004 - Boca Raton Tril -EL Rio Trail - Trajectories

93N004 - Boca Raton Tril -EL Rio Trail - Trajectories

93N004 - Boca Raton Tril -EL Rio Trail -Lines & Zones Configuration

Boca Raton Tri-Rail @ El Rio Trail

Franklin St at Zack St



FDOT

FLORIDA DEPARTMENT OF TRANSPORTATION
SHORT-TERM NON-MOTORIZED VOLUME COUNTS

SITE CODE:	10N006	DISTRICT:	7
LOCATION:	Franklin St and Zack St	COUNTY:	Hillsboroug
GPS:	27.950135, -82.459041	TYPE:	Sidewalks / Bikes On-Road
COUNT TYPE:	Video Detection	DIRECTION/SIDE:	Bi-Directional /N and S Sides
START DATE:	2/12/2022	END DATE:	2/15/2022

PEDESTRIAN AND BICYCLES TRAJECTORIES 02/12/2022

PEDESTRIAN AND BICYCLES TRAJECTORIES 02/15/2022

2,229 motorized AADT & 2822 Micromobility - MORE MICROMOBILITY TRAVELER's PER DAY

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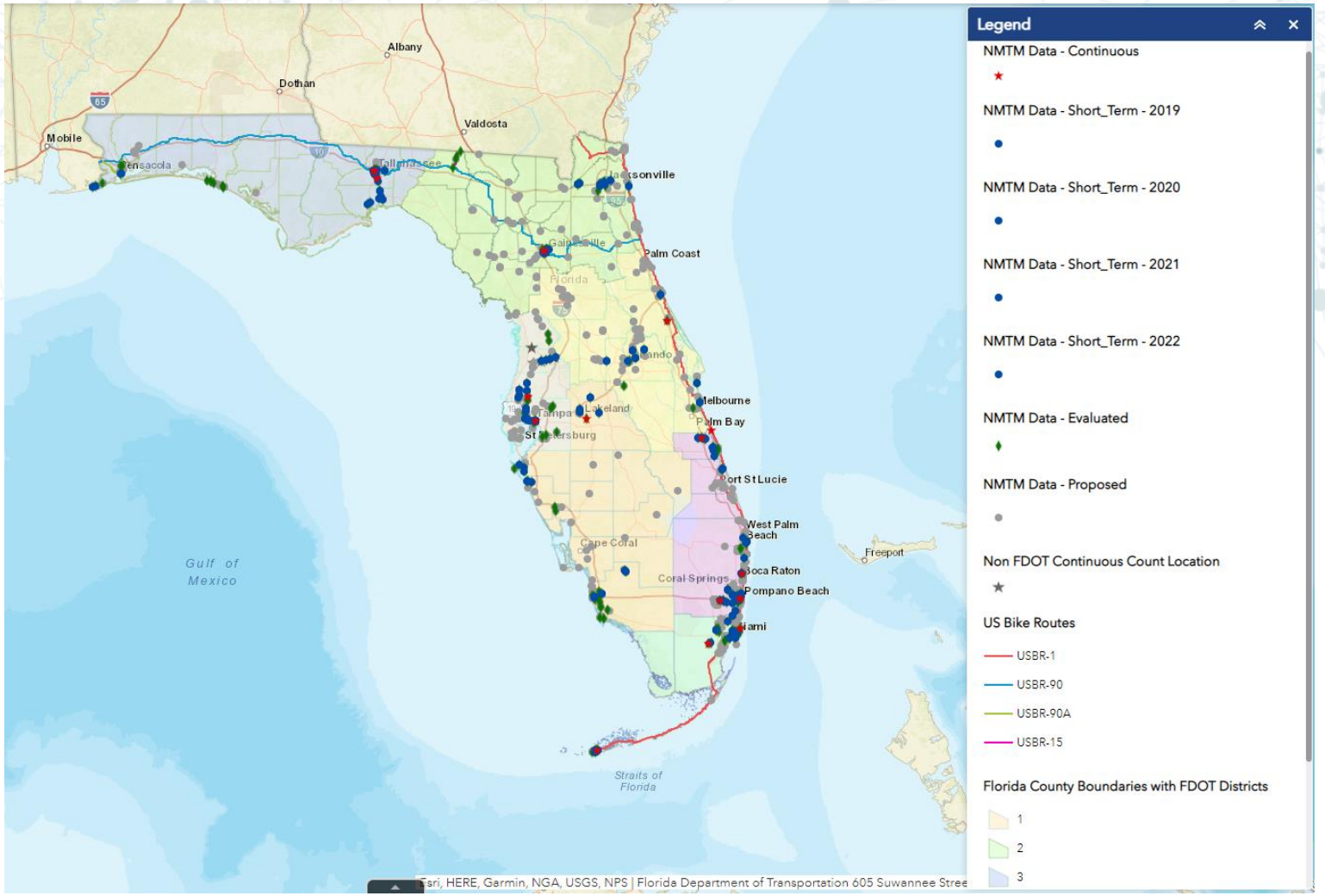
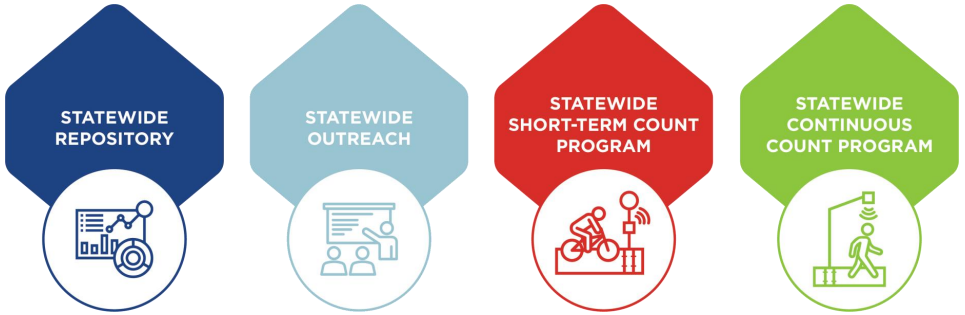
FDOT Next Steps:

- Report validated data to FHWA
- Refine Site Selection Process with a scoring and ranking system
  - 22 Sites targeted for installation during 2022-23 cycle
    - Over 600 Proposed locations
    - Over 200 Evaluated Locations
    - Over 130 Short-term count locations
    - Over 650 stakeholders
- Develop and deploy an In-house data management system

Integrate NMTM Program into larger count network

- Data sharing with other partnering agencies
  - Collection methods
  - Data Formatting
  - Data Management
  - Data Analysis
  - Data Reporting



Thank you and Questions

- https://www.fdot.gov/statistics/trafficdata/florida-non-motorized-traffic-monitoring
- Ed Hutchinson, Transportation Data and Analytics Office Manager – Ed.Hutchinson@dot.state.fl.us
- Eric Griffin, Traffic Monitoring Program Manager – Eric.Griffin@Dot.state.fl.us
- Joey Gordon, Transportation Data Analysis Supervisor – Joey.Gordon@dot.state.fl.us
- Victor Johnson, Traffic Data Collection Supervisor– Victor.Johnson@dot.state.fl.us
- Eric Katz, Consultant PM – Eric.Katz@dot.state.fl.us; ekatz@marlinengineering.com