

Statewide Non-Motorized Traffic Monitoring Program

Data Validation, Formatting, and Reporting





Agenda

- Program Overview
- Current Count Efforts
 - Data Validation
 - Data Formatting
 - Data Reporting
- Questions

STATEWIDE
CONTINUOUS
COUNT
PROGRAM

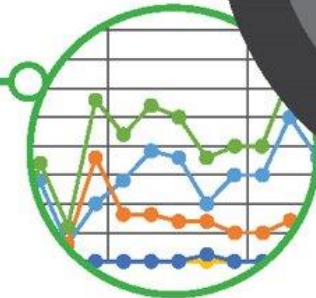


STATEWIDE
SHORT-TERM
COUNT LOANER
PROGRAM



FDOT
NON-MOTORIZED
TRAFFIC MONITORING
PROGRAM

STATEWIDE
REPOSITORY



STATEWIDE
OUTREACH





Program Overview

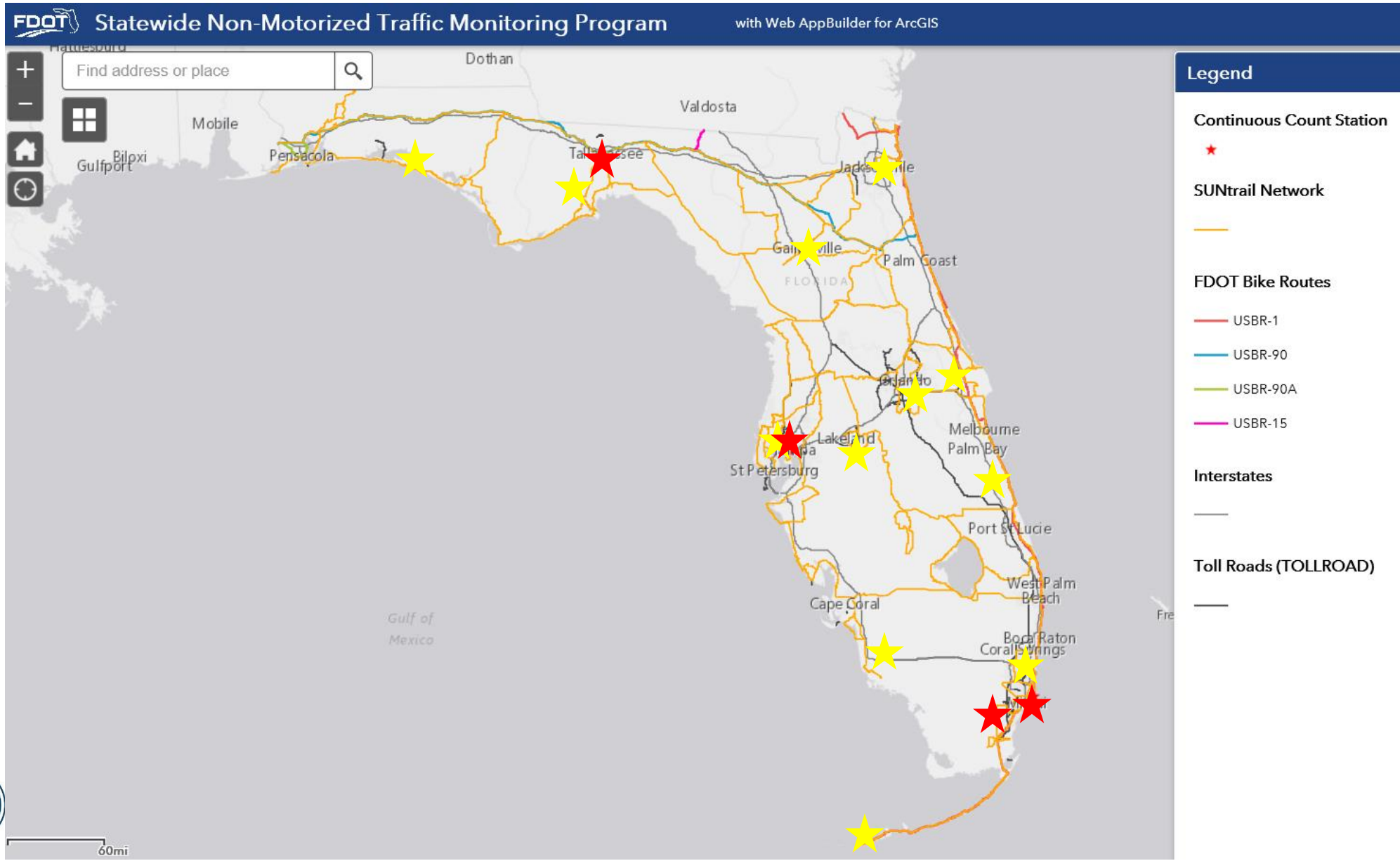


Continuous Counts

- Counts 24/7/365
- Counters capture; Total volume, Speed, Direction of travel
- Provides critical baseline statistics that can be applied to factoring short-term counts statewide



Continuous Count Installations



City Scale

FDOT Statewide Non-Motorized Traffic Monitoring Program with Web AppBuilder for ArcGIS

Find address or place

Tallahassee

Legend

- Short Term Count Site
- Continuous Count Station
- Evaluated Count Site
- Proposed Count Stations
- SUNtrail Network
- FDOT Bike Routes
 - USBR-1
 - USBR-90
 - USBR-90A
 - USBR-15
- Interstates
- Toll Roads (TOLLROAD)

(1 of 3)

St. Marks Trail at Woodville Hwy

FID	3
COSITE	55C001
SITE_NUM	144
Site_Name	St. Marks Trail at Woodville Hwy
Site_Evalu	More info
Count_Data	
Latitude	30.370497
Longitude	-84.268108
Type_of_Co	Continuous
District	3
County	55

[Zoom to](#)

2mi

-84.465 30.466 Degrees

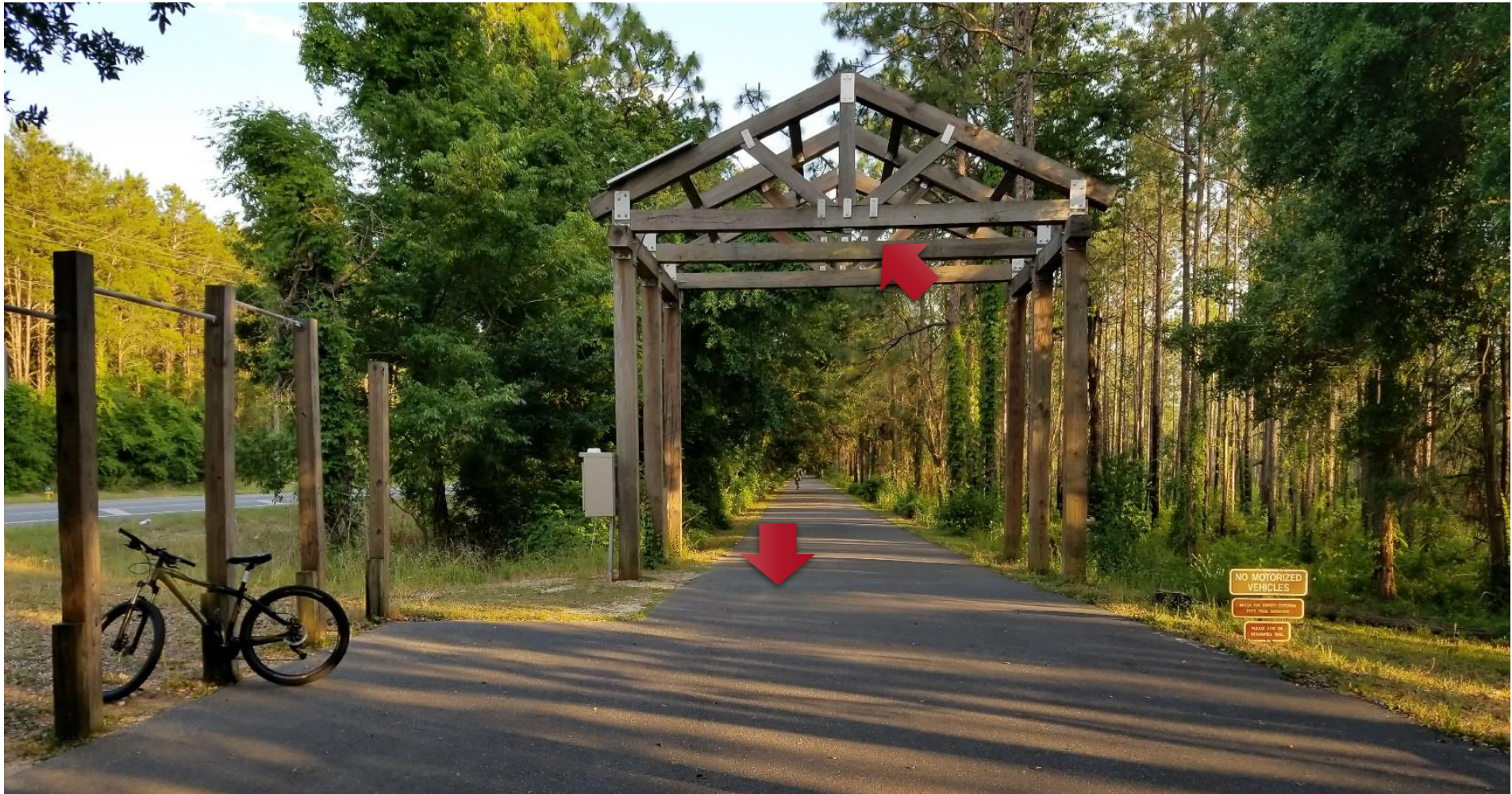
Florida Department of Environmental Protection, Office of



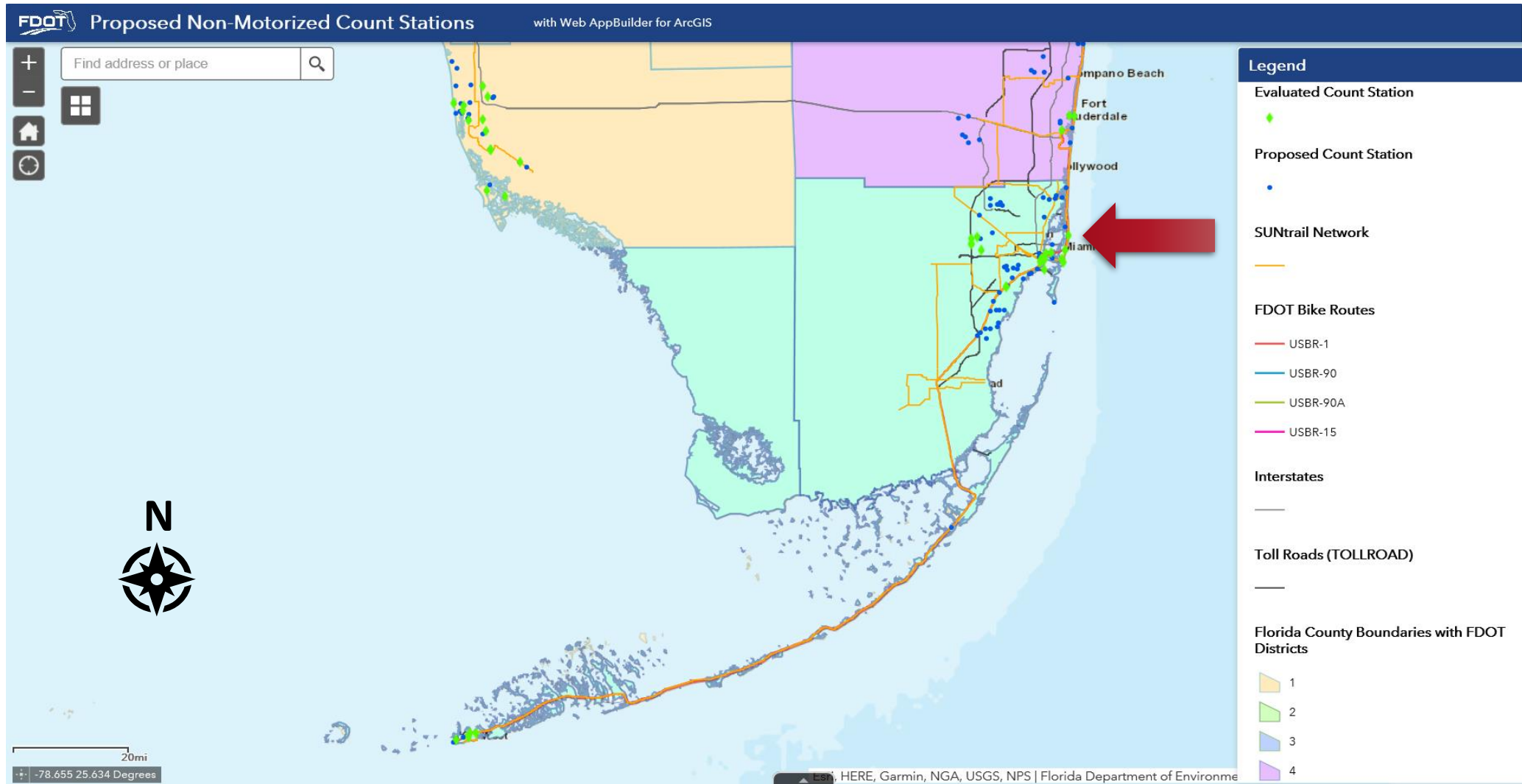


Continuous Counts - St. Marks Trail

THANK YOU!



Counter Location – District 6 Scale



Counter Location – City Scale



FDOT Statewide Non-Motorized Traffic Monitoring Program with Web AppBuilder for ArcGIS

Find address or place City

Map showing Miami area with counter locations and infrastructure. A popup window displays details for the Atlantic Greenway Trail.

Atlantic Greenway Trail	
FID	2
COSITE	87C002
SITE_NUM	98
Site_Name	Atlantic Greenway Trail
Site_Evalu	More info
Count_Data	
Latitude	25.832784
Longitude	-80.119791
Type_of_Co	Continous
District	6
County	87

Zoom to ...

2mi
-80.347 25.857 Degrees

9
Florida Department of Environmental Protection, Office of

Legend

Short Term Count Site



Continuous Count Station



SUNtrail Network



FDOT Bike Routes



Interstates



Toll Roads (TOLLROAD)





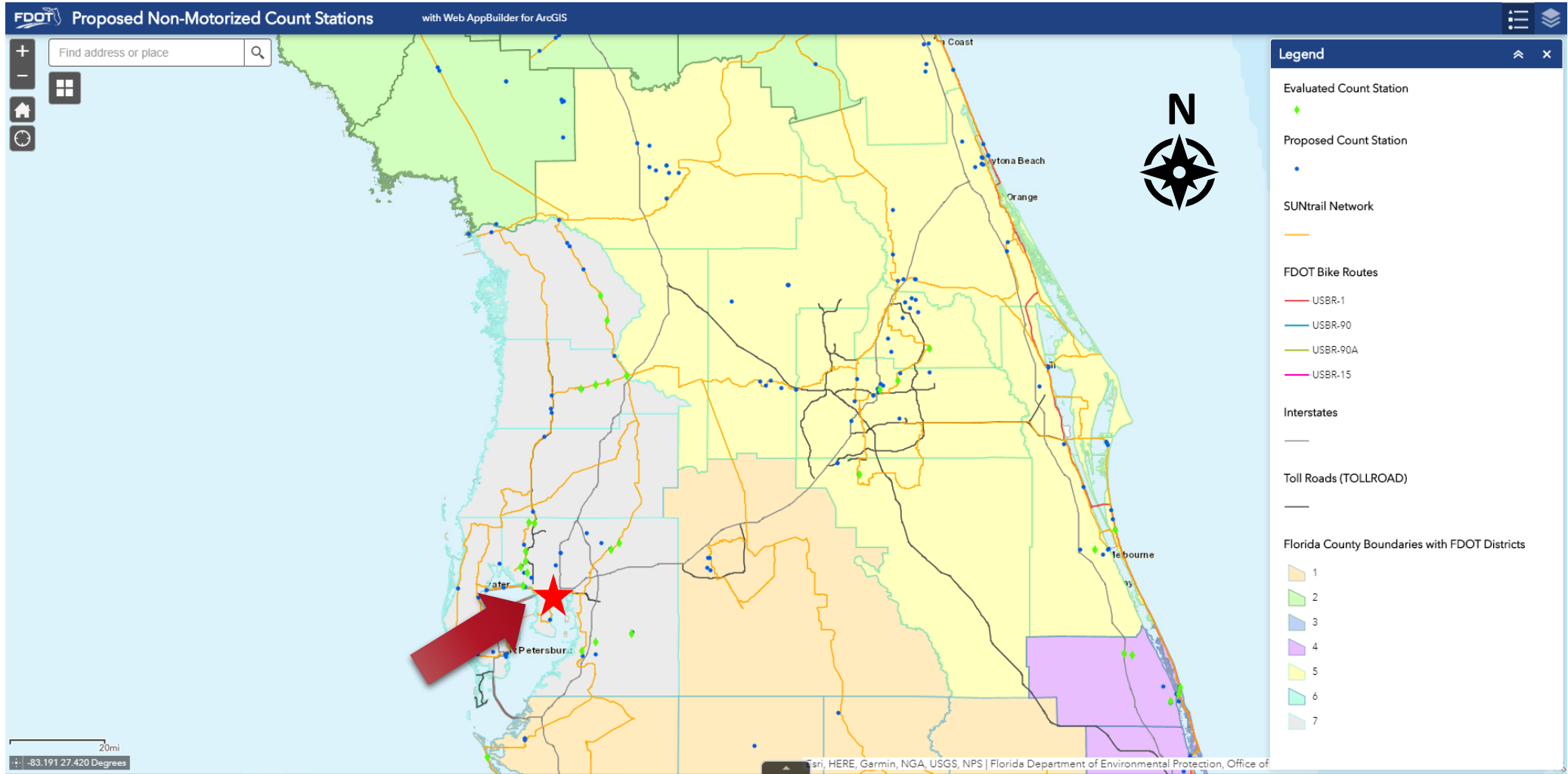
THANK YOU!



MIAMI BEACH



District 7 Scale





District 7: Tampa Scale

FDOT Statewide Non-Motorized Traffic Monitoring Program with Web AppBuilder for ArcGIS

Find address or place

Legend

- Short Term Count Site
- Continuous Count Station
- SUNtrail Network
- FDOT Bike Routes
 - USBR-1
 - USBR-90
 - USBR-90A
 - USBR-15
- Interstates
- Toll Roads (TOLLROAD)

Jackson St Cycle Track

FID	1
COSITE	10C001
SITE_NUM	28
Site_Name	Jackson St Cycle Track
Site_Evalu	More info
Count_Data	
Latitude	27.947033
Longitude	-82.4568829
Type_of_Co	Continous
District	7
County	10

Zoom to

0.6mi

-82.498 27.941 Degrees

12 Florida Department of Environmental Protection, Office of
Florida Department of Transportation Transportation Station
Transportation | Esri, HERE | Esri, HERE



District 7: Downtown Tampa





Installation Photo

THANK YOU!



District 7



Hillsborough County Florida



TAMPA DOWNTOWN PARTNERSHIP



District 6 – Miami-Dade County Scale



FDOT Statewide Non-Motorized Traffic Monitoring Program with Web AppBuilder for ArcGIS

Find address or place

Legend

- Continuous Count Station
- SUNtrail Network
- FDOT Bike Routes
 - USBR-1
 - USBR-90
 - USBR-90A
 - USBR-15
- Interstates
- Toll Roads (TOLLROAD)

Krome Path, Miami-Dade Co

FID	4
COSITE	87C001
SITE_NUM	145
Site_Name	Krome Path, Miami-Dade Co
Site_Evalu	More info
Count_Data	
Latitude	25.67273
Longitude	-80.48126
Type_of_Co	Continuous
District	6
County	87

[Zoom to](#)

2mi

-80.547 25.731 Degrees

Florida Department of Environmental Protection, Office of





Continuous Counts – District 6

THANK YOU!





Short-term Count Program



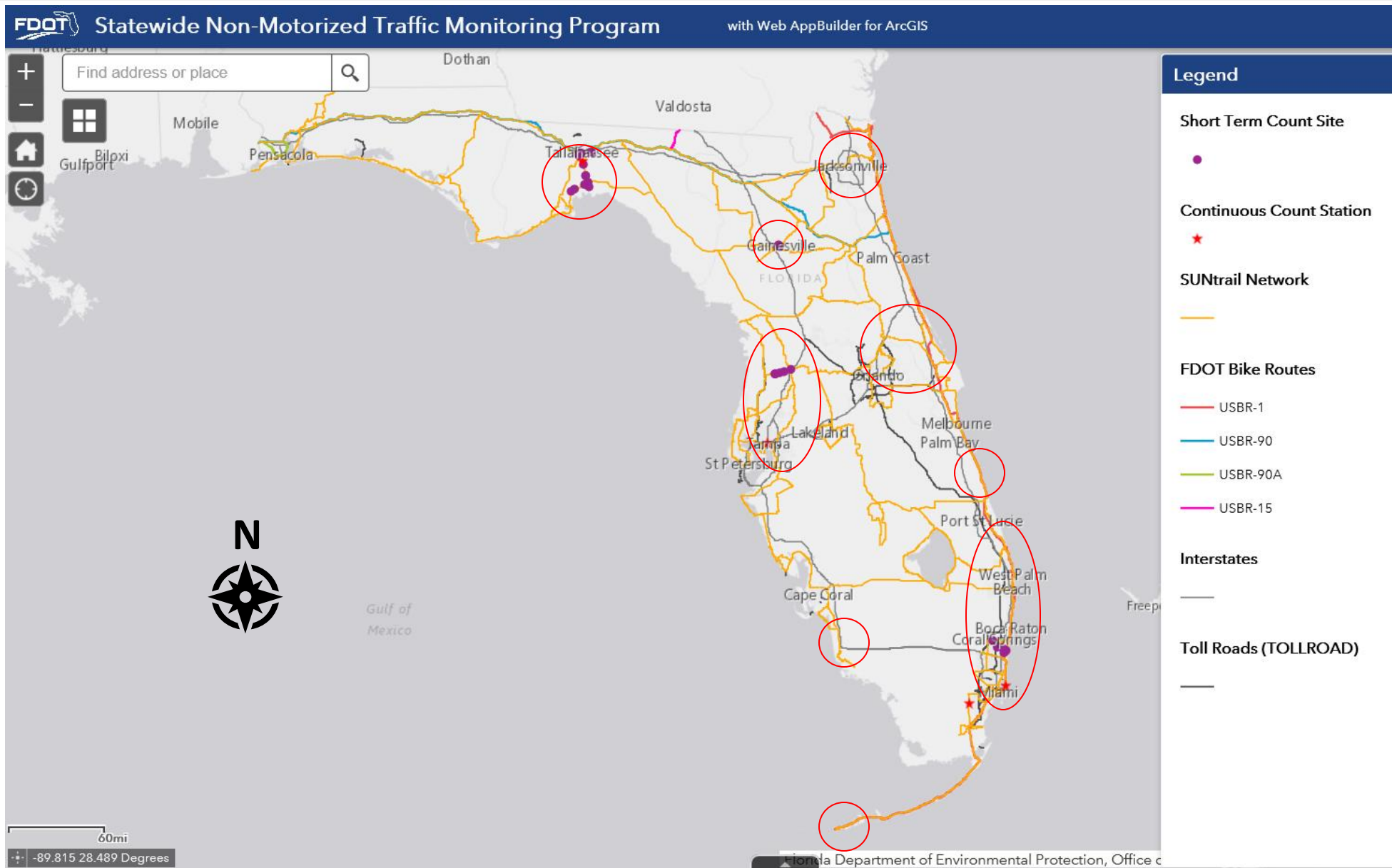


Short-term Count Program





Where we have done short-term counts





Short-term Count Equipment



Bicycle tube counters



Infrared pedestrian counter



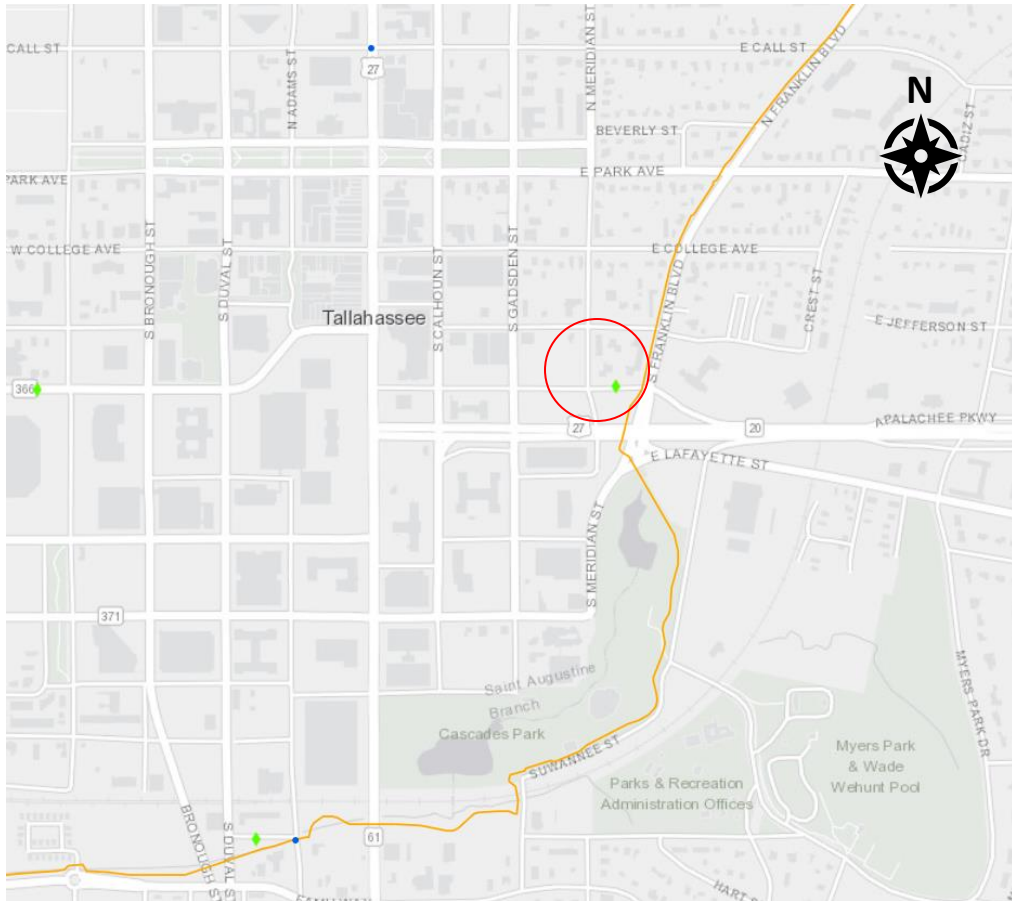


Data Validation



Franklin Blvd @ Smokey Hollow

GPS: 30.4387669, -84.2766337
FDOT Station # 55N002

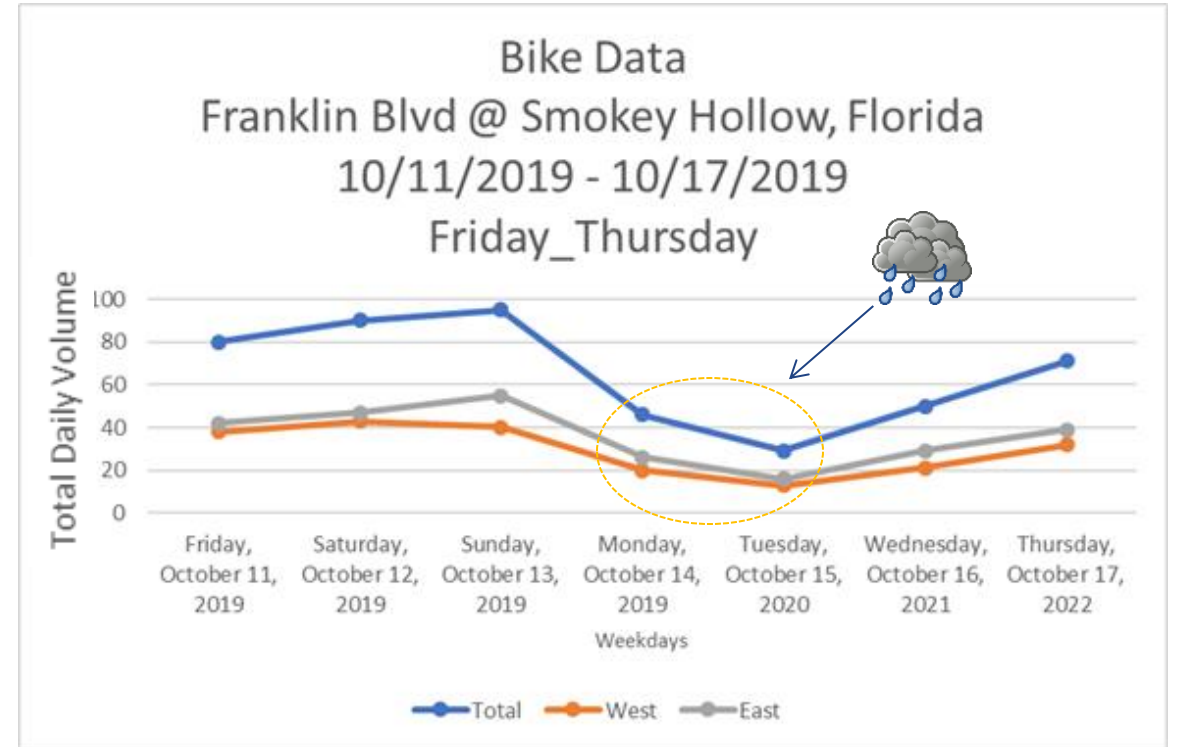
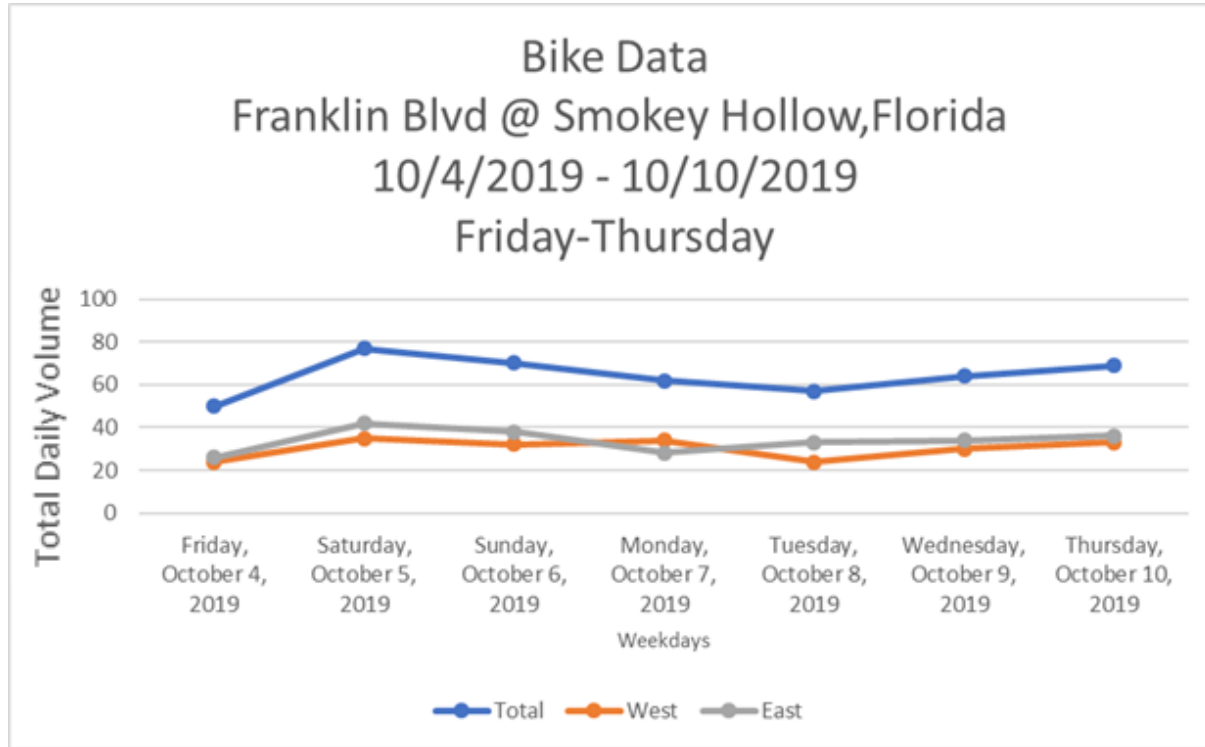


On-Site Evaluation





Franklin Blvd @ Smokey Hollow



Findings:

- Potential Factor Group: Urban Mixed
- Higher Volumes during the weekend, but only slightly

DRAFT



NOAA Weather reference

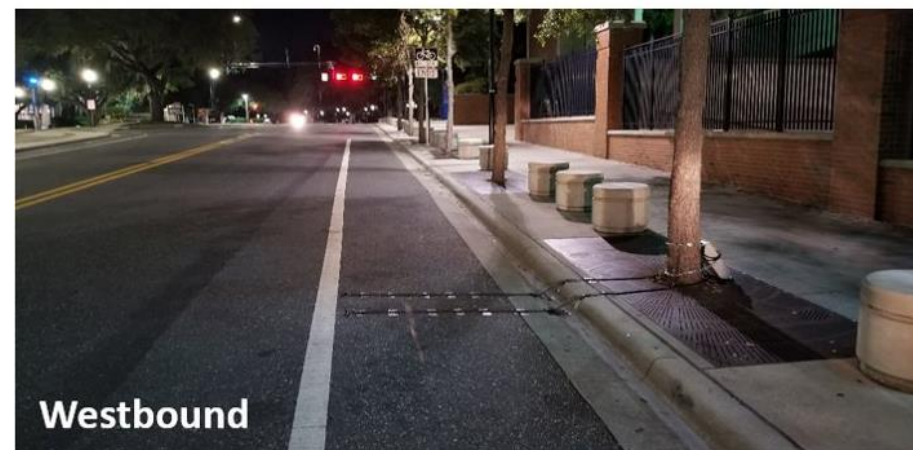
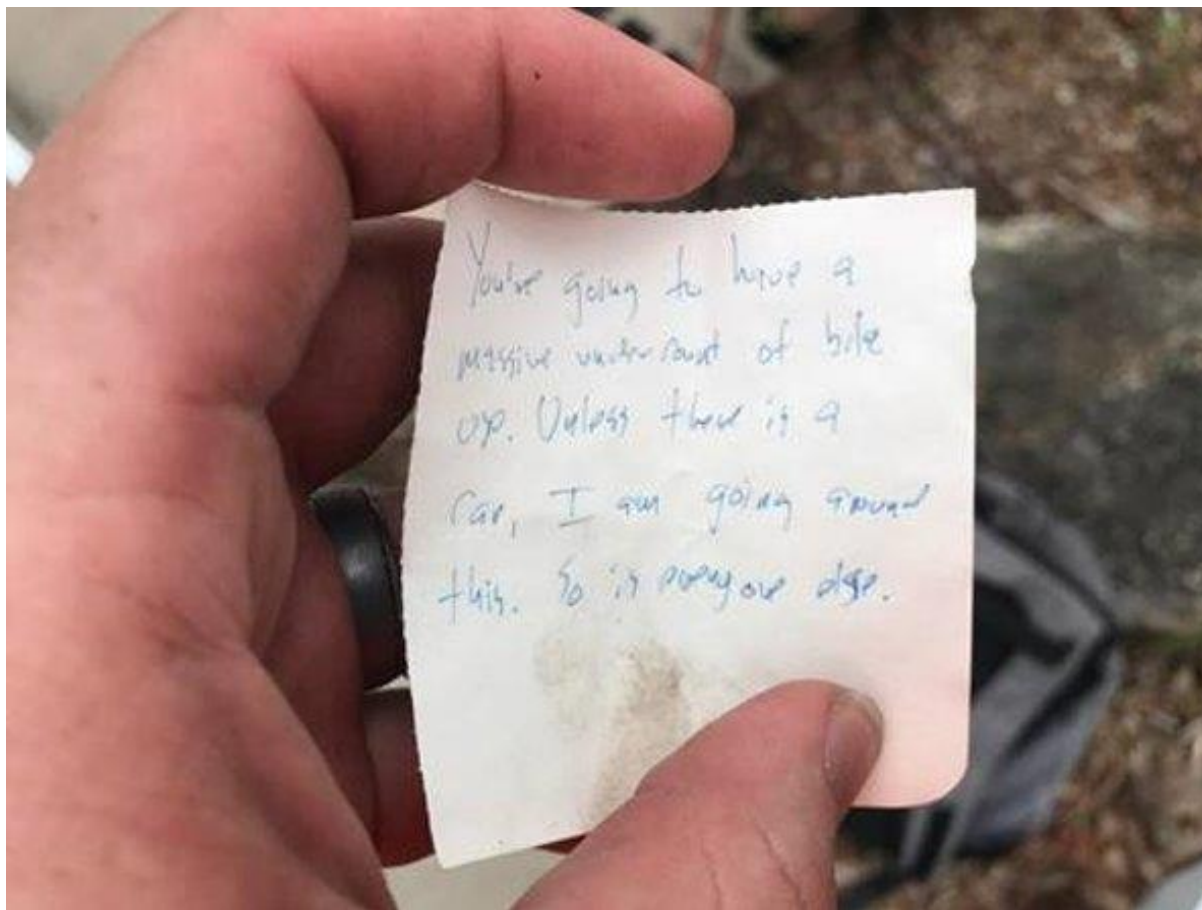
Climatological Data for TALLAHASSEE REGIONAL AP, FL - October 2019

Click column heading to sort ascending, click again to sort descending.

Date	Temperature				HDD	CDD	Precipitation	New Snow	Snow Depth
	Maximum	Minimum	Average	Departure					
2019-10-01	95	72	83.5	9.3	0	19	0.01	0.0	0
2019-10-02	96	70	83.0	9.1	0	18	0.00	0.0	0
2019-10-03	97	68	82.5	8.9	0	18	0.00	0.0	0
2019-10-04	97	68	82.5	9.2	0	18	0.00	0.0	0
2019-10-05	93	69	81.0	8.1	0	16	0.00	0.0	0
2019-10-06	91	74	82.5	9.9	0	18	0.00	0.0	0
2019-10-07	86	73	79.5	7.2	0	15	0.02	0.0	0
2019-10-08	93	71	82.0	10.1	0	17	0.00	0.0	0
2019-10-09	90	68	79.0	7.4	0	14	0.00	0.0	0
2019-10-10	91	66	78.5	7.2	0	14	0.00	0.0	0
2019-10-11	88	61	74.5	3.6	0	10	0.00	0.0	0
2019-10-12	90	61	75.5	4.9	0	11	0.00	0.0	0
2019-10-13	89	62	75.5	5.2	0	11	0.00	0.0	0
2019-10-14	92	67	79.5	9.5	0	15	1.17	0.0	0
2019-10-15	82	72	77.0	7.4	0	12	1.80	0.0	0
2019-10-16	85	69	77.0	7.7	0	12	T	0.0	0
2019-10-17	74	57	65.5	-3.5	0	1	0.00	0.0	0
2019-10-18	67	60	63.5	-5.1	1	0	0.16	0.0	0
2019-10-19	83	63	73.0	4.7	0	8	0.54	0.0	0
2019-10-20	79	63	71.0	3.0	0	6	0.00	0.0	0
2019-10-21	83	57	70.0	2.3	0	5	0.00	0.0	0
2019-10-22	81	53	67.0	-0.4	0	2	0.13	0.0	M
2019-10-23	75	51	63.0	-4.1	2	0	0.00	0.0	0
2019-10-24	81	53	67.0	0.3	0	2	0.00	0.0	0
2019-10-25	87	71	79.0	12.6	0	14	0.09	0.0	0
2019-10-26	84	72	78.0	11.9	0	13	T	0.0	0
2019-10-27	82	63	72.5	6.7	0	8	0.01	0.0	0
2019-10-28	84	61	72.5	7.0	0	8	0.00	0.0	0
2019-10-29	77	72	74.5	9.3	0	10	0.24	0.0	0
2019-10-30	83	71	77.0	12.1	0	12	0.00	0.0	0
2019-10-31	89	50	69.5	4.9	0	5	0.18	0.0	0
Sum	2664	2008	-	-	3	332	4.35	0.0	-
Average	85.9	64.8	75.4	6.0	-	-	-	-	0.0
Normal	81.4	57.3	69.4	-	46	181	3.23	0.0	-

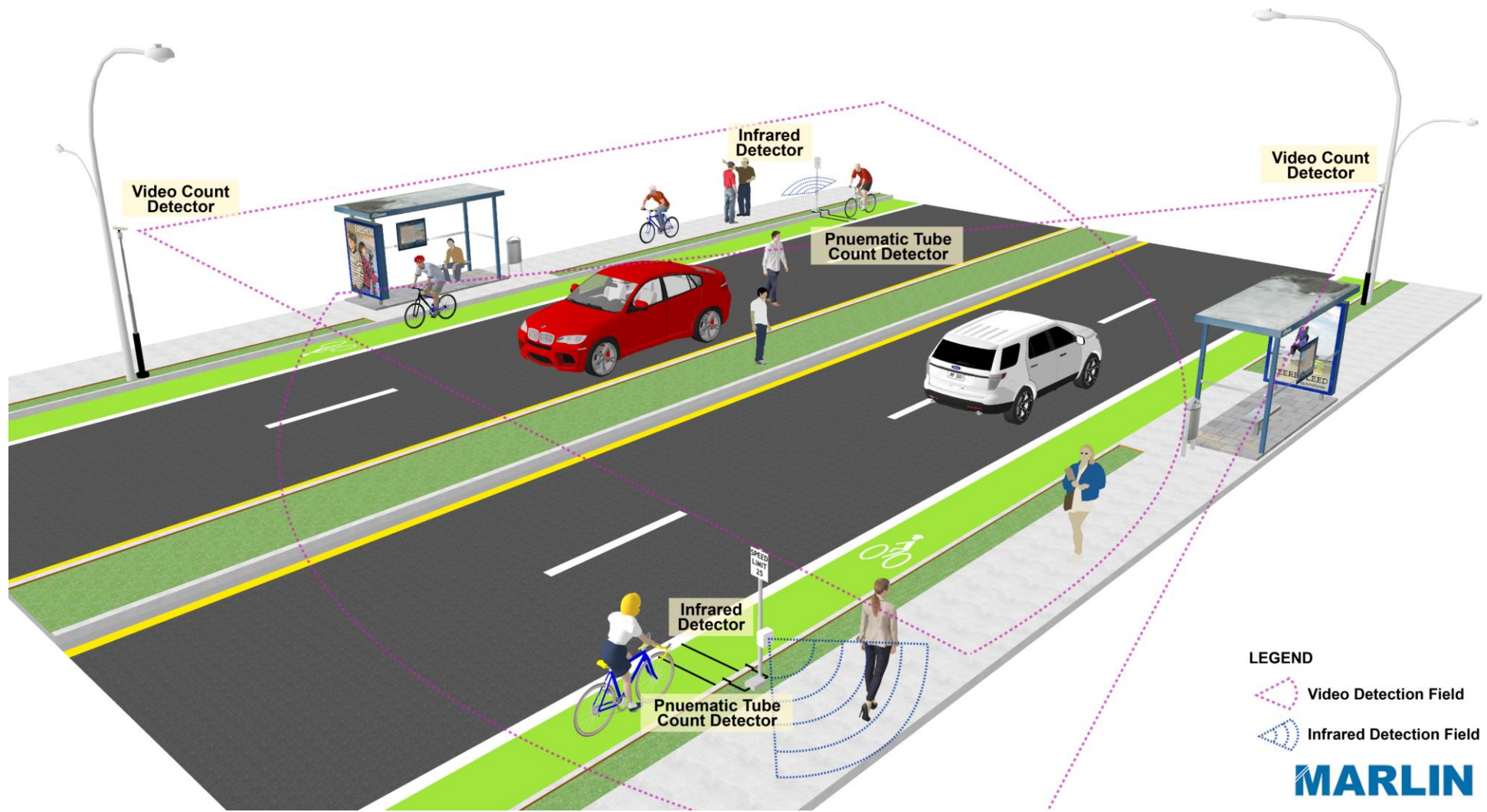


Gainesville Note





Transit Study Cameras





Continuous Counts - Test Site





Data Formats



Standard format - At this time...

Entry level equipment

- Site Specific Information
 - Site name
 - FDOT Station number
 - X, Y coordinate
 - Facility Type
 - Context Classification
 - Roadway type
 - Adjacent land uses
 - Date of count
 - Count equipment type
- Total Volume
 - **Hourly counts**
 - **Manuel* classification**



Advanced Equipment

- Site Specific Information
 - Site name
 - FDOT Station number
 - X, Y coordinate
 - Facility Type
 - Context Classification
 - Roadway type
 - Adjacent land uses
 - Date of count
 - Count equipment type
- Total Volume
 - Hourly counts
 - **Auto classification**
- **Direction**
- **Speed**
- **Weather**



Premium Equipment

- Site Specific Information
 - Site name
 - FDOT Station number
 - X, Y coordinate
 - Facility Type
 - Context Classification
 - Roadway type
 - Adjacent land uses
 - Date of count
 - Count equipment type
- Total Volume
 - Hourly counts
 - Auto classification
- Direction
- Speed
- Weather
- **Behavior**





Data Reporting



Non-Motorized Data Repository

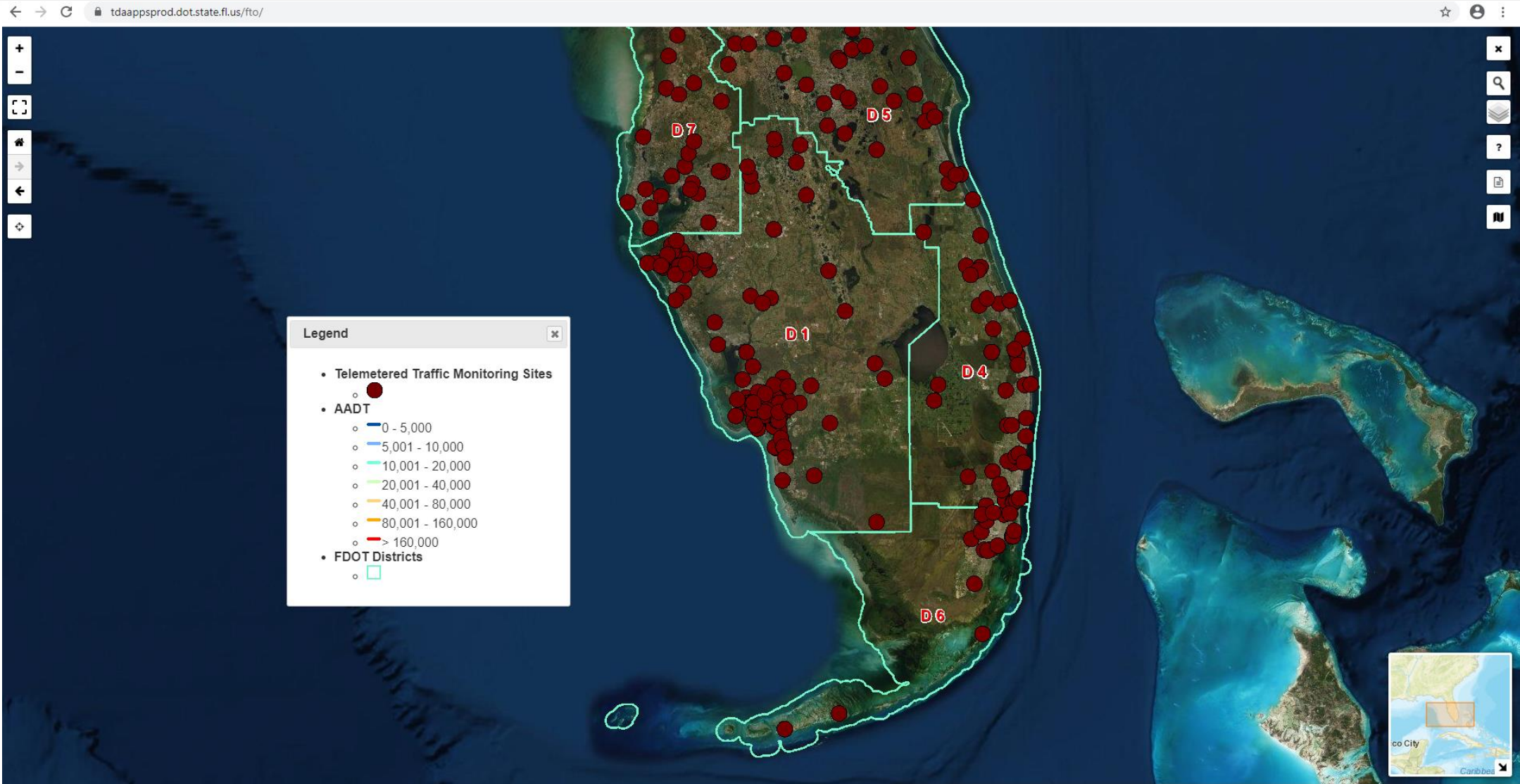
Transportation Data Management System (TDMS)

- Motorized and Non-Motorized Data Migration is underway
- New TDMS is expected to go Live Mid - 2020
- All Non-Motorized Traffic Monitoring (NMTM) Program counts will be displayed on TDMS platform
- Data Sharing is welcome from partnering agencies and organizations






Transportation Data Management System





Federal Reporting System

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Federal Highway Administration

Publisher

Federal Highway Administration

Contact

Jessberger, Steven (OST)

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Travel Monitoring Analysis System (TMAS) - Travel Monitoring Analysis System

Metadata Updated: February 22, 2019

Internal FHWA data program that assists in the collection and analysis of data on traffic volumes, vehicle classification, truck weights for traffic statistics, analysis; it is used for development of policies and regulations. The monthly data are published in the Traffic Volume Trends (TVT) report.

Access & Use Information

Restricted: This dataset can only be accessed or used under certain conditions.

License: See this page for license information.

The data system is not available to the general public because it contains data related to recipients of Federal highway funding and limited access is integral to system controls.

Collection

This dataset is part of the following collection:

Collection Travel Monitoring Analysis System (TMAS)

Internal FHWA data program that assists in the collection and analysis...

[HTML](#)





Reporting Goals

- Provide FDOT and the Public with access to high quality non-motorized traffic volume data and statistics to assist in local, regional, and statewide efforts
- Data that is formatted and reported to FHWA Travel Monitoring Analysis System to assist in national efforts



Outreach – 2 Newsletters and 1 Webinar per year



NOVEMBER 2019, ISSUE NO. 1

NON-MOTORIZED TRAFFIC MONITORING PROGRAM NEWSLETTER



Continuous Counter Stress Test | Tallahassee Test-Site

WHAT'S IN THIS ISSUE

This is our first official newsletter for the NMTM Program. The intent of this newsletter is to keep our hundreds of stakeholders up to date on the progress of the program. The newsletter is organized to inform the reader on the progress of our 4 program pillars: Outreach & Partnerships, Non-Motorized Data Repository, Short-term Count Program, and Continuous Count Program.

If you have any suggestions for the newsletter's content, or if you have detailed questions regarding data sharing and/or partnerships, please contact Eric.Katz@dot.state.fl.us.



Greetings fellow non-motorized data collectors,

We hope everyone is enjoying the Fall season. Since the June 2019 Statewide Meeting, the FDOT Transportation Data and Analytics (TDA) Office has been hard at work developing the Non-Motorized Traffic Monitoring (NMTM) Program. Below are some of the highlights of the program's recent activities.

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OUTREACH & PARTNERSHIPS

The NMTM website has been updated with more program information and convenient access to numerous resources. <https://www.fdot.gov/statistics/trafficdata/florida-non-motorized-traffic-monitoring/>

The NMTM Program has released its 2nd [Recommendations Report](#). The report highlights program activities from January 2019 to September 2019. Refer to this document for more detailed information regarding the growth and direction of the program.

Statewide Webinar #2 is scheduled for January 23, 2020. A flyer with registration information will be provided soon.

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STATEWIDE NON-MOTORIZED TRAFFIC MONITORING PROGRAM WEBINAR #2

JANUARY 23, 2020 | 10:30AM - 12:00PM



WHO: Transportation Data & Analytics Office

WHERE: GoTo Webinar Link
 Registration URL: <https://attendee.gotowebinar.com/register/8318924070172852749>
 Webinar ID: 226-505-211

.....

WHY:

- » Receive national updates regarding the 2020 Transportation Research Board (TRB) meeting
- » Learn about the progress of the statewide program including continuous count site installations, short-term count deployments, growth of our Statewide Data Repository, and statewide outreach
- » FDOT will share lessons learned & best practices regarding short term count deployments
- » FDOT is seeking recommendations on how to prepare for its next Statewide Meeting
- » We want to hear about your local count efforts!





Outreach – Annual Statewide Meeting



Knowledge sharing



Recommending count sites



Field day at Test Site



Outreach - Webpage



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Transportation Data and Analytics Office

Transportation Data and Analytics / Traffic Information / Statewide Non-Motorized Traffic Monitoring Program



Statewide Non-Motorized Traffic Monitoring Program

Program Overview

The Florida Department of Transportation Office of Transportation Data and Analytics (TDA) began the development of a Non-Motorized Traffic Counting Program in May 2018 with a need to provide bicycle and pedestrian (Non-Motorized) volume and supporting statistics and information to new and existing data customers. The intent of developing the non-motorized data program is similar to motorized traffic volume data in that non-motorized data can be used for all the same types of analyses such as safety studies, planning and programming FDOT facilities, pavement and trail maintenance, etc.



Purpose

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

Program Structure

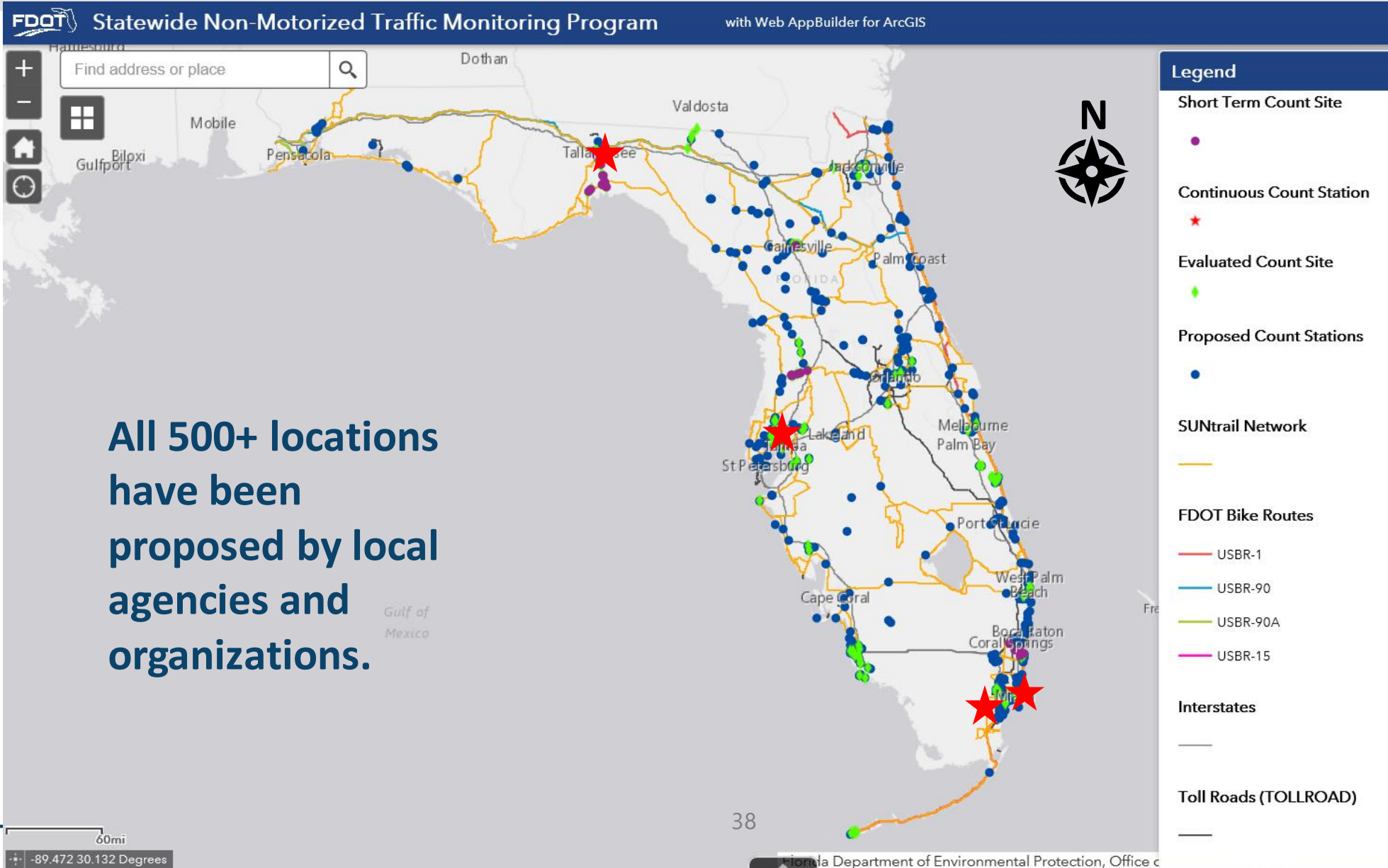


<https://www.fdot.gov/statistics/trafficdata/florida-non-motorized-traffic-monitoring/>





Outreach - Survey Results



All 500+ locations have been proposed by local agencies and organizations.

