FDOT
Statewide Non-Motorized Traffic Monitoring Program

ITE Presentation
October 29-31, 2018
Florida DOT (FDOT) Program Overview

- Non-motorized Year 1 Goals
  - Phase 1 – To identify, implement and document Non-motorized traffic monitoring methods resulting in the creation of a FDOT statewide non-motorized traffic monitoring program
  - Phase 2 – To identify, implement, and document installation of continuous counting monitoring sites
  - Phase 3 – To identify, implement, and document data publication methods
Phase 1 - RESULTS

To identify, implement and document site selection methods creating a statewide bicycle and pedestrian counting program

- Documented Methods in the Recommendations Report
- Identified Top 30 sites to consider for Continuous Counting Station (CCS) equipment installation
- Statewide Coordination with Stakeholders
- Counting Program Development Methods Training to statewide stakeholders
Non-Motorized Program Methods

- National/FHWA approved, compliant and documented national standards and methods
- Taking advantage of already existing Motorized Traffic Volume Program resources and well-established methods and adding some new resources
  - Equipment
  - Software
  - Staffing
- Stakeholder Coordination is the key “lynchpin” of the program!
FDOT Non-Motorized Team

- Ed Hutchinson – Transportation Data & Analytics Manager
- Steve Bentz – Transportation Monitoring Program Manager
- Joey Gordon – Transportation Data QC Manager; Task Manager for Non-Motorized Traffic Monitoring Program
- Chris Francis, PhD, - Statewide Non-Motorized Program Project Manager (MARLIN Engineering Inc.)
- Liz Stolz – Managed (2) Statewide DOT Traffic Programs, Developed the first DOT Bike/Ped Data Collection Program at CDOT (MARLIN Engineering Inc.)
- Eric Katz, AICP, CNU-A – Statewide Non-Motorized Traffic Monitoring Program Coordinator; 10 years experience in bicycle/pedestrian infrastructure projects within Florida (MARLIN Engineering, Inc.)
Everyone Wants Data!

Safety
Design
Roadway Maintenance
Facility Planning
Traffic Operations
Transit studies
Economic Impact
Public Health

The challenge is to find partners willing to help manage, contribute to, and maintain a statewide data program!
FDOT Non-Motorized Traffic Monitoring Program

Statewide Continuous Count Program
1-2 Continuous Counter installations per district, per year. Data will be published and publicly accessible.

Statewide Short-Term Count Loaner Program
MOU with partnering agencies. FDOT CO provides equipment and training. Partnering agency provides FDOT CO with good data.

Statewide Repository
Voluntary program in which FDOT TDA will accept bike/ped count data statewide. TDA staff will evaluate the data, identify trends, and submit to FHWA.

Statewide Training and Technical Assistance
FDOT Site Selection Methodology

- Create and send a survey
- Develop a worksheet and track responses
- Analyze responses
  - Conduct virtual site visits
  - Conduct on-site visits
- Prioritize and organize sites within the worksheet
FDOT Survey Monkey

264 Total Survey Respondents
406 Locations recommended
FDOT Districts Stratification of the 406 recommended locations...

![Bar graph showing Bike/Ped Survey District Count for different districts: District 7 with 49, District 6 with 57, District 5 with 81, District 4 with 72, District 3 with 37, District 2 with 81, District 1 with 29.](image)
Q2

Are any bicycle and pedestrian counts being conducted by your agency?

Yes

No
Q7
Type of data collection technology used? Click all that apply
Q24

What is the purpose of collecting data at this location? Please click all that apply.
Virtual Site Visit Findings

• Safety is an issue
• Riverfront and Causeways might need their own Factor Groups
• There are a good mix of sites that were recommended (low, medium, high volumes) and (recreational, commuter, mixed)

Site qualified for Potential Continuous Bicycle /Pedestrian Counting
Eau Gallie Causeway, Melbourne, Florida

Site qualified for Potential Continuous Bicycle /Pedestrian Counting
Shingle Creek Trail, Kissimmee, Florida
Virtual Site Visit
Findings...Safety is an issue...

Miami Beach: Normandy Dr.

Naples, FL: US 41

Naples, FL: US 41
Riverwalk Factor Group?

Miami, Florida

Jacksonville, Florida

Ft. Lauderdale, Florida

Tampa, Florida
Causeway factor group?

Miami, FL

Jacksonville, FL

Tampa, FL

Ft. Lauderdale
On-Site workbook with field data collection forms

- Evaluate and record on-site specific conditions
- Determine baseline activity levels and behaviors
- 4 Core pages of critical information plus photos
- Check boxes for quick automated data collection
General on-site details and characteristics, site specific observations and behaviors
Conducted On-Site Visits
Site #14 - Cross Seminole Trail at SR 434, Orlando
on-site visit observations and photos

- Expected low volume…but…
Existing data from Stakeholders includes...

- Capital Circle Test Site
- St. Marks Trail
- Key West – 13 locations
- Tallahassee
- Others…
Test Site Diagram
St. Marks Trail, Tallahassee, FL
Saint Mark’s Trail
Performing as a Recreational Trail
but Commute Traffic Patterns Monday - Friday

- May, 2018 Data for the Saint Mark’s Trail shows how the trail is performing!
- Monday – Friday commuter traffic pattern
- Saturday – Sunday recreational traffic pattern
- Over 2 times the volume at the peak hour on weekend versus weekday
Overseas Heritage Trail, Key West, FL
**City of Key West Data Annual Total Volume**

- 13 locations
- Maximum 300,000 annually in Key West location
- 5 locations over 100K!
- 1,139,497 ANNUAL TOTAL for all counting locations
Key West Non-motorized Traffic Data Travel Trend

Key West - Trail Counts
3 Years of data from July, 2015-June, 2017
Total Monthly Volumes

MONTH

2015 Stock Island 2015 Key West-Rest Beach 2016 Stock Island
2016 Key West-Rest Beach 2017 Stock Island 2017 Key West-Rest Beach
Current Status and Project Activities include...

- **CONTINUOUS DATA COLLECTION**
  - Preparing and Coordinating CCS installations
    - Work with Stakeholders
    - Purchase Equipment
    - MOU

- **SHORT-TERM LOANER PROGRAM**
  - MOU
  - Install Counters/Collect data
  - Analyze STC data

- **EXISTING DATA REPOSITORY**
  - Gathering existing data from Stakeholders
  - Analyzing data

- **STATEWIDE TRAINING & TECHNICAL ASSISTANCE**
  - Draft Report Results
  - Statewide Meeting
  - TransPlex 2019
Conclusions

• Participation is Welcome
• Training is available
• Non-motorized program is dynamic, will continue to grow over time, and FDOT is on its way to being a leader among states collecting data
Questions

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