



TRAIL SAFETY ENHANCEMENTS

**Parks and Recreation
Division**

August 28, 2012



Presentation Outline

- **Background**
- **Trail Safety Strategies**
- **Budget Impact Summary**
- **Next Steps**



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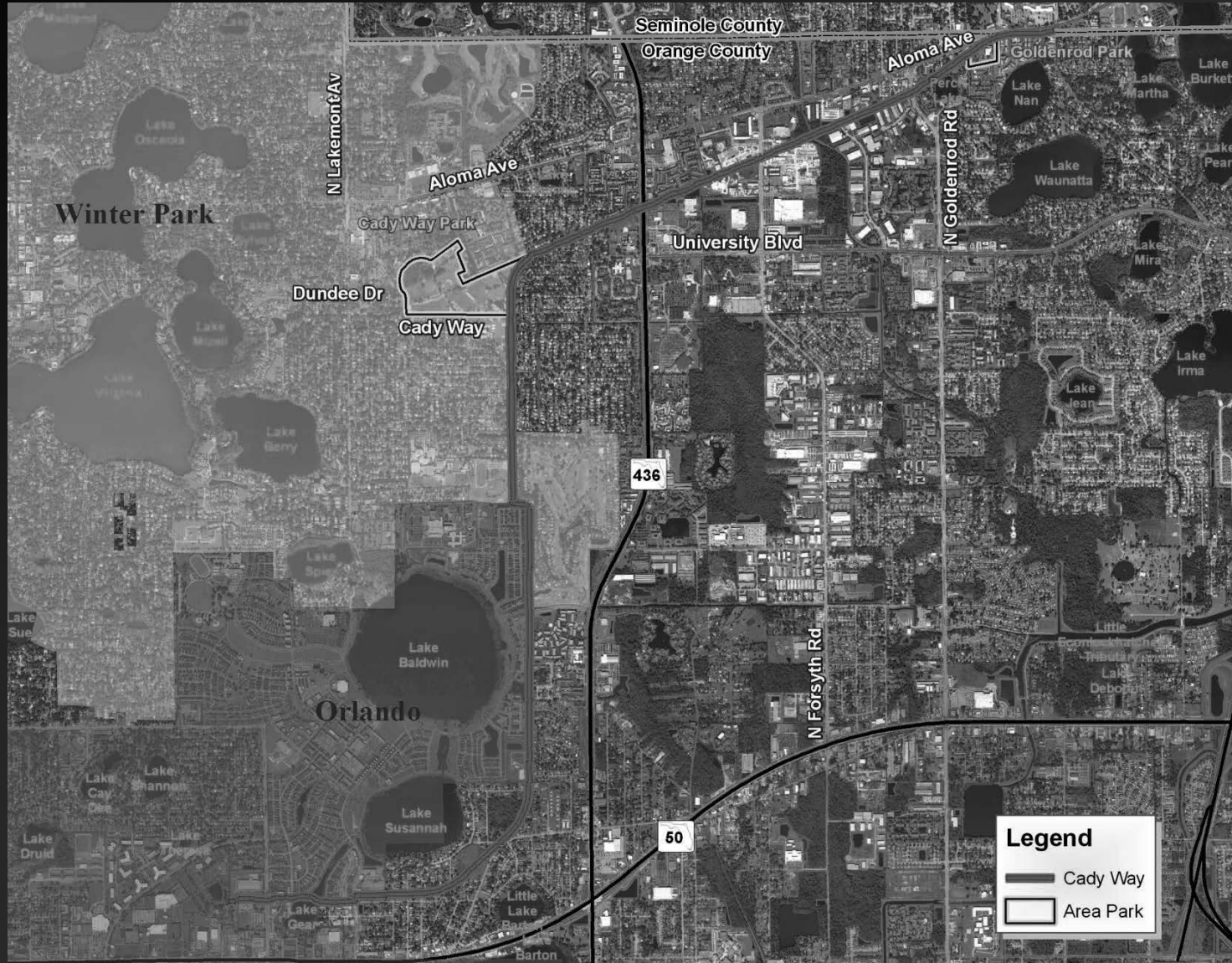
Background

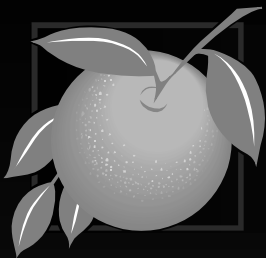




Background

**Cady Way
Trail
6.9 miles**





Background

**Little Econ
Trail
7.2 miles**





Background

**West Orange
Trail
22.6 miles**





Background

Lake Apopka Trail 3.5 miles





Background

- Multiple users
- 3 million users on the trail per year
- Trails are open 365 days a year from sunrise to sunset





Background

- Diversity of communities





Background

- **Accessibility to the trails**
 - Most segments are open and allow unrestricted pedestrian access
 - Some segments are fenced





Background

- **Accessibility to trails**
 - **Restricted vehicle entries at roadway intersections**
 - **Vehicle access for maintenance and emergencies**





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Trail Safety Strategies

- **Safety and Security Committee:**
 - Orange County Sheriff's Office
 - County Administration
 - Community & Environmental Services Department
 - Parks and Recreation Division
 - Information System & Services (ISS)
 - Code Enforcement
 - Neighborhood Services
 - Public Works
 - Risk Management
 - Orange County 311
 - Office of 9-1-1



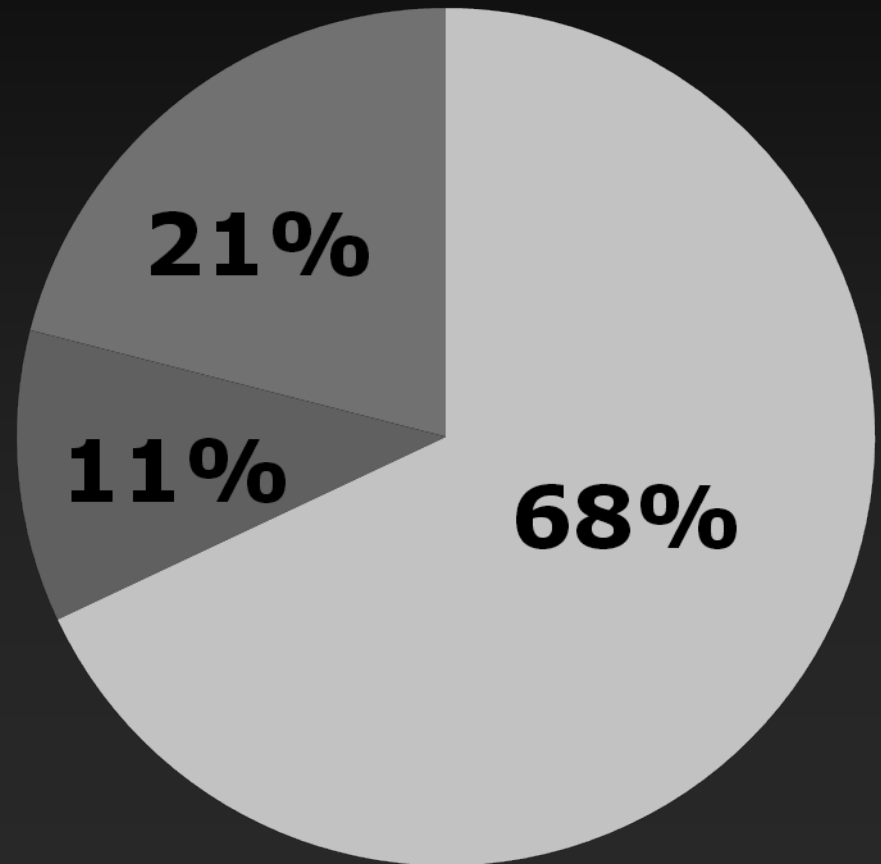
Trail Safety Strategies

- Can we provide a deterrent to prevent criminal incidents from happening?
- A comprehensive assessment of the Orange County trail system was performed
- Recommendations of the Safety and Security Committee



Trail Safety Strategies

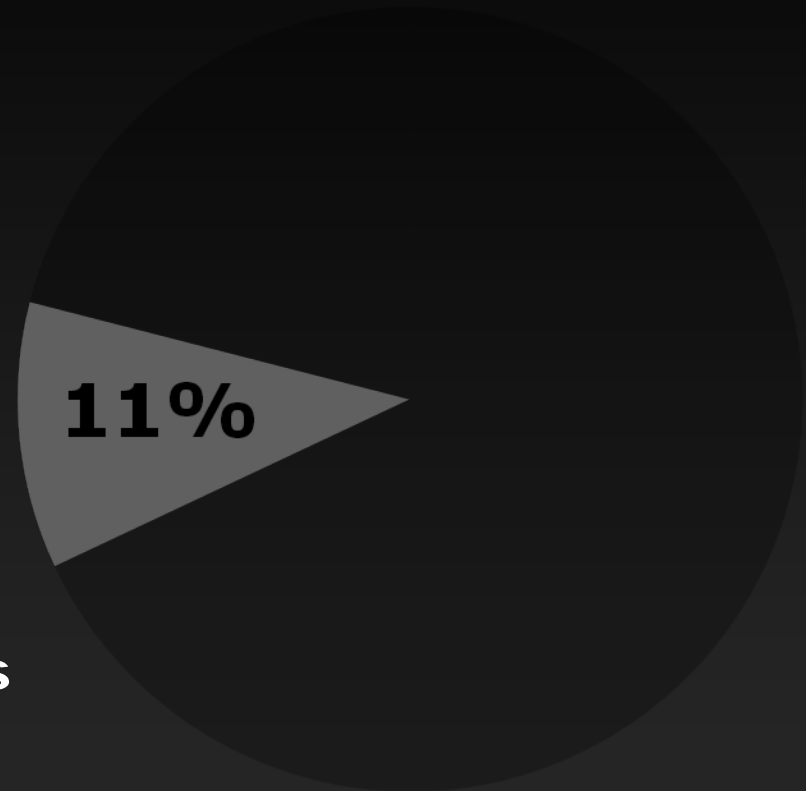
- **373 reported incidents from January 2009 to June 2012**
 - **Medical** ■
 - 42
 - **Other Misc.** ■
 - 77
 - **Criminal** ■
 - 254

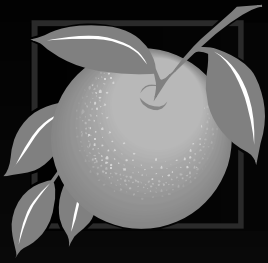




Trail Safety Strategies

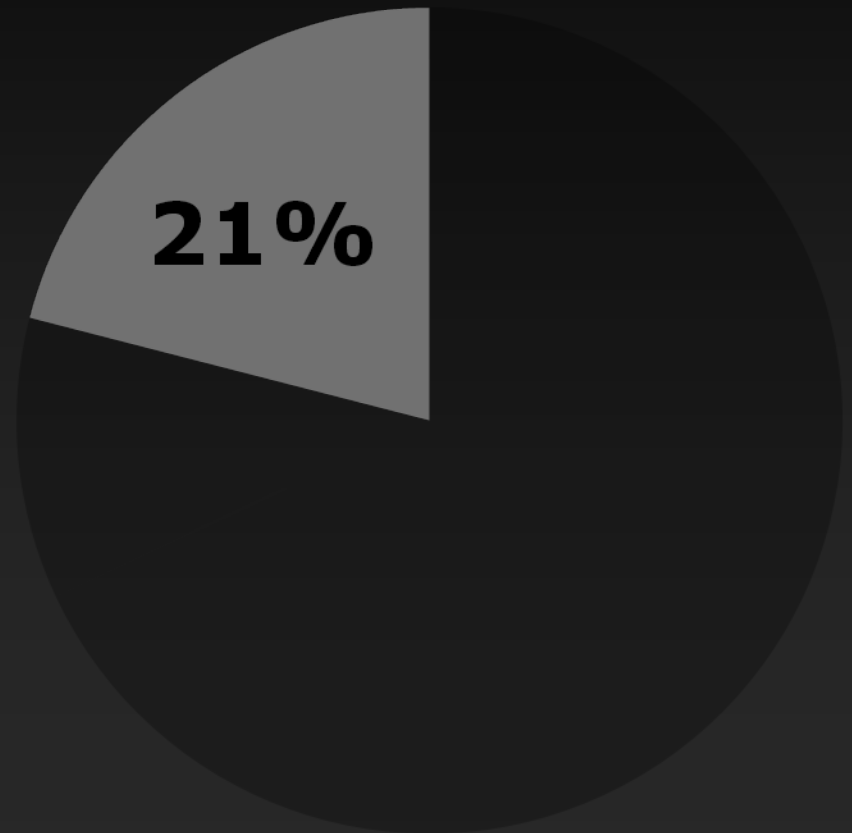
- **Medical - 42**
 - **Minor first aid – 21**
 - Bicycle accidents
 - Skaters fall
 - Fatigue
 - Sprains/Strains
 - **Major medical – 21**
 - Heart attacks and seizures
 - Heat strokes
 - Broken wrist/arm
 - Serious bicycle accidents





Trail Safety Strategies

- **Other Miscellaneous - 77**
 - Maintenance
 - Employee incidents
 - Trespass violations
 - Customer concerns

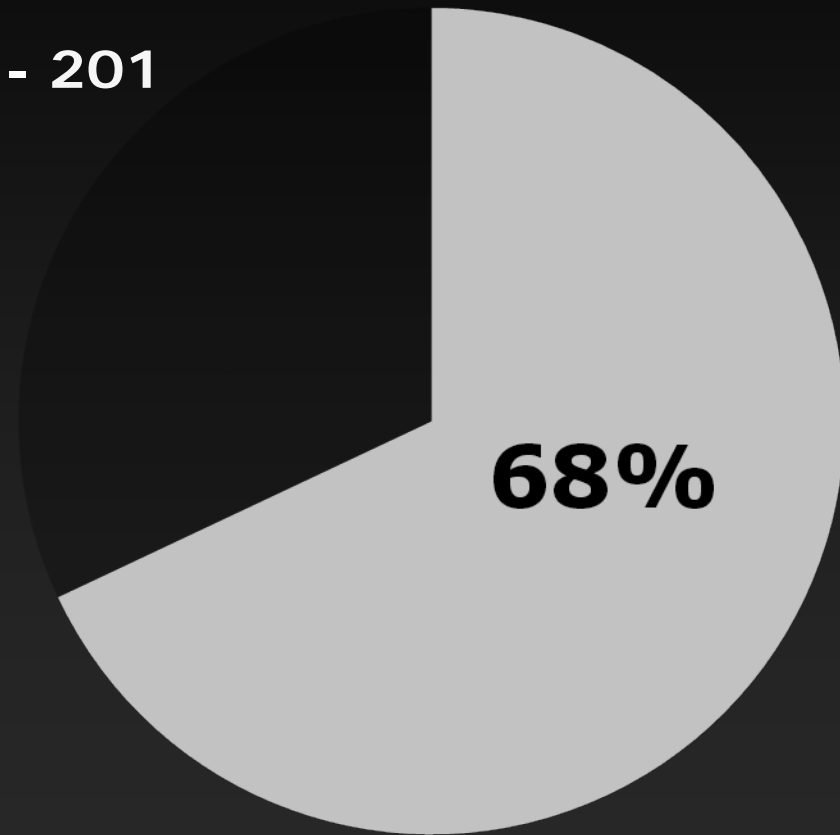




Trail Safety Strategies

- **Criminal - 254**

- Vandalism/theft to park buildings and equipment - 201
- Smash and grabs - 22
- Misc. Incidents - 11
- Harassment - 8
- Indecent exposure - 5
- Homicide – 4
- Assault - 3





Trail Safety Strategies

- **Education and Public Awareness**
- **Physical Environment**
- **Partnerships**



Trail Safety Strategies

- **Education and Public Awareness**
- Physical Environment
- Partnerships



Trail Safety Strategies

Education and Public Awareness

- "Be Trail Smart" Campaign
 - Includes:
 - ✓ Brochures
 - ✓ Highly visible signage placed at trailheads
 - ✓ Mobile web page
- Estimated Cost - \$12K



- Buddy Up - Travel with a friend
- Use trail during daylight hours only
- Carry a cell phone so you can communicate
- Plan your route & inform others of your destination
- Be aware of your surroundings
- Obey all traffic signs / laws
- Stay right and do not impede other users
- Don't use head phones
- Report any suspicious activity to 911 using GPS coordinates on trail to identify your location

Orange County Parks
& Recreation Division
Contact us at 407-836-6200 or 311
"It Starts in Parks"





Trail Safety Strategies

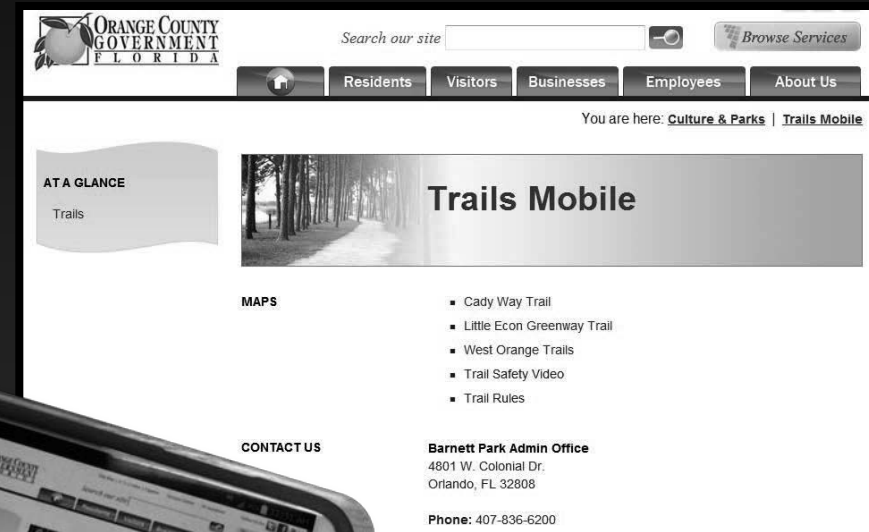
Education and Public Awareness

- **Mobile Web Page**

<http://www.orangecountyfl.net/CultureParks/TrailsMobile.aspx>

- **Includes:**

- ✓ Maps
- ✓ Trail Safety Video
- ✓ Trail Rules

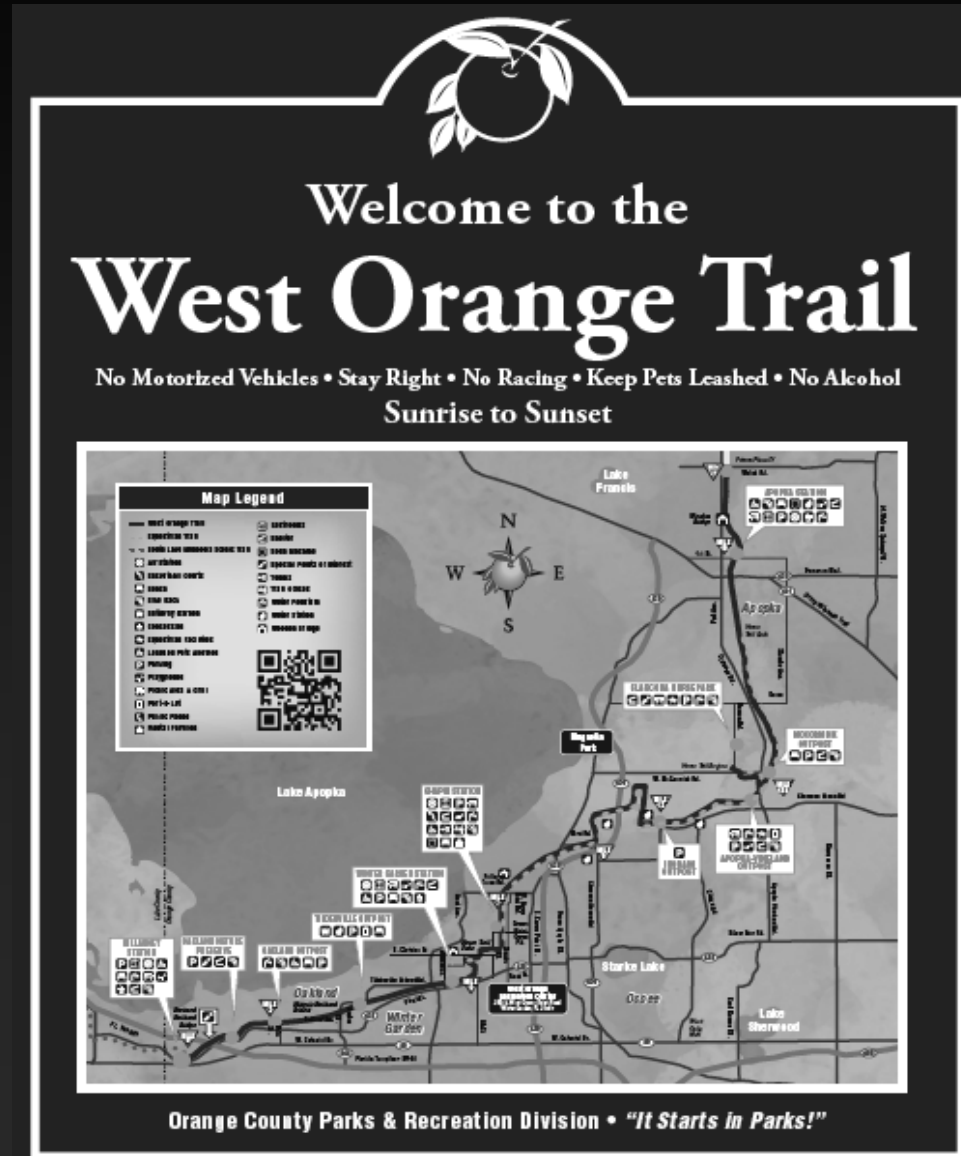




Trail Safety Strategies

Education and Public Awareness

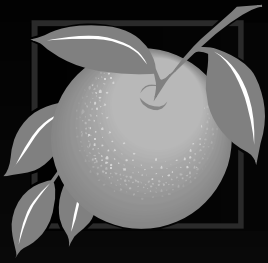
- Informational trail signage
 - Intersections
 - Parking
 - Trailheads
 - ✓ Map of the trail
 - ✓ Location of amenities
 - ✓ Trail rules
 - ✓ Hours of operation (sunrise to sunset)





Trail Safety Strategies

- Education and Public Awareness
- **Physical Environment**
- Partnerships



Trail Safety Strategies

Physical Environment

- Majority of crime is graffiti
 - Weekly incidents
 - 24-hour removal after discovery
 - Estimated Cost - \$12K annually





Trail Safety Strategies

Physical Environment

- Accelerated enforcement of code violation due to graffiti
- Will hold businesses responsible for removing graffiti from their buildings in a timely manner

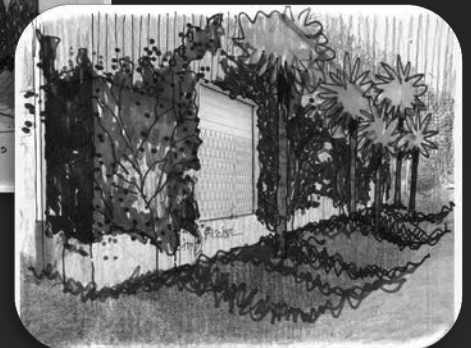




Trail Safety Strategies

Physical Environment

- **Crime Prevention Through Environmental Design (CPTED)**
 - Trail underbrush clearing to improve sightlines
 - Estimated Cost - \$5K
 - Recommending adjacent businesses install crime deterrent landscaping





Trail Safety Strategies

Physical Environment

- **Install Emergency Response System Markers (ERSM) along the trails**
 - GPS points painted on trail at regular intervals
 - Correspond to emergency access mapping managed by 9-1-1 dispatch to direct emergency response
 - Coordinated effort between Parks, ISS and the Office of 9-1-1
 - Estimated Cost - \$6K



Trail Safety Strategies

- Education and Public Awareness
- Physical Environment
- **Partnerships**



Trail Safety Strategies

Partnerships

- **Orange County Sheriff's Office**
 - **Committed to regular meetings with the Parks and Recreation Division**
 - **Increased patrols on the Cady Way Trail**
 - **Working with ISS to equip patrol officers with GIS maps to identify access points and barriers**





Trail Safety Strategies

Partnerships

- **Municipal Partners**

- **Cady Way Trail**

- Orlando
 - Winter Park

- **West Orange Trail**

- Apopka
 - Oakland
 - Ocoee
 - Winter Garden





Trail Safety Strategies

Partnerships

- **Community Groups and Private Businesses**
 - Goldenrod Community Alliance
 - Full Sail University
 - Trail user groups





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Budget Impact Summary

	<u>Estimated Cost</u>	<u>Estimated O&M Cost</u>
Education and Public Awareness	\$12K	\$2K
Physical Environment	\$23K	\$18K
Fence Installation	\$2K	\$500



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Next Steps

- **Implement “Be Trail Smart” campaign**
- **Post informational signage along the trails**
- **Coordinate the implementation of the ERSM with the Public Safety partners**
- **Continue communication efforts with community groups, private businesses, inter-departments, and municipal partners**
- **Continue underbrush clearing to improve sightline using CPTED techniques**



Next Steps

- **Continue to Evaluate Other Options**
 - **Install automatic gates at locked trailhead**
 - **Off-duty Deputies**
 - **9-1-1 Call Boxes**
 - **Security Cameras**
 - **Lighting of trails**



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