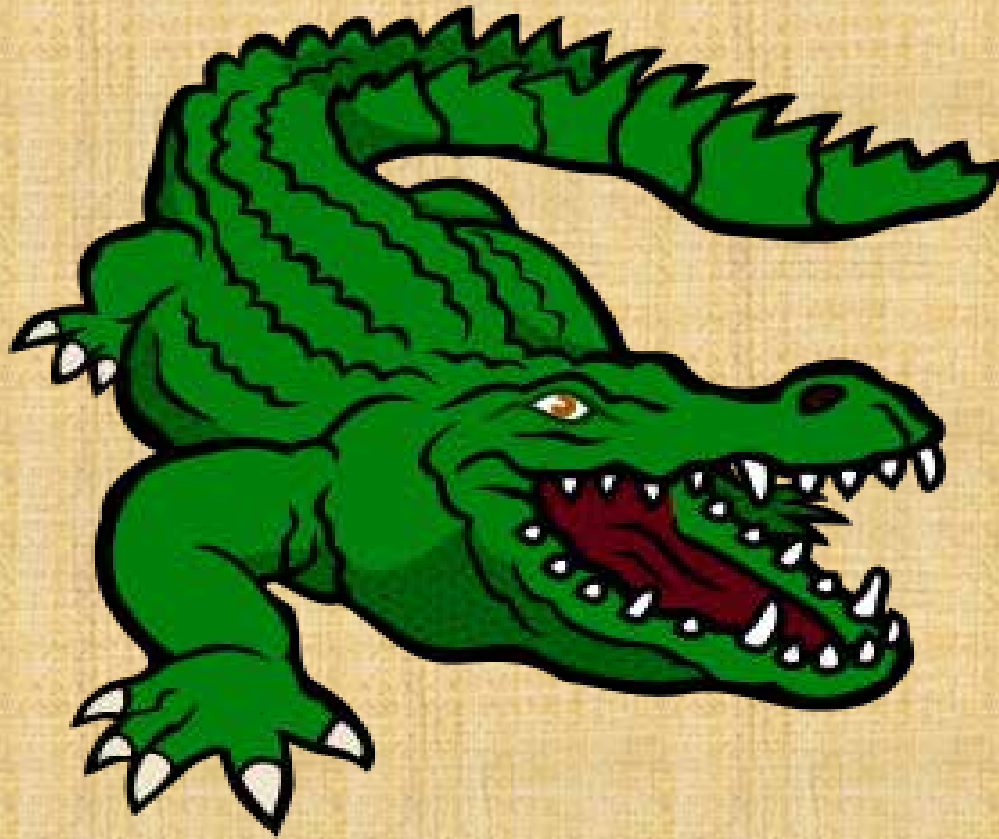


The Town of Malabar
seeks to become a
Florida Trail Town

The following is intended to show
FDEP OGT
that

Malabar is ready!

From afar, visitors may see
Florida as a colorful place of
green alligators & pink flamingos



Some folks may visit Florida just
to meet a black and white mouse



However, for a growing number of Florida visitors and residents, the question is where is it best to ...



HIKE?

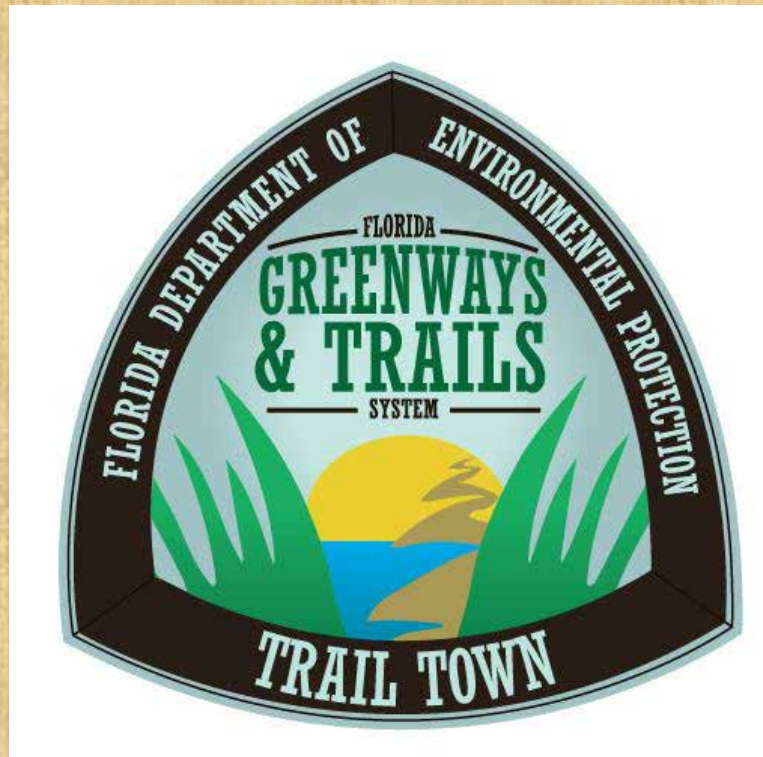


RIDE?

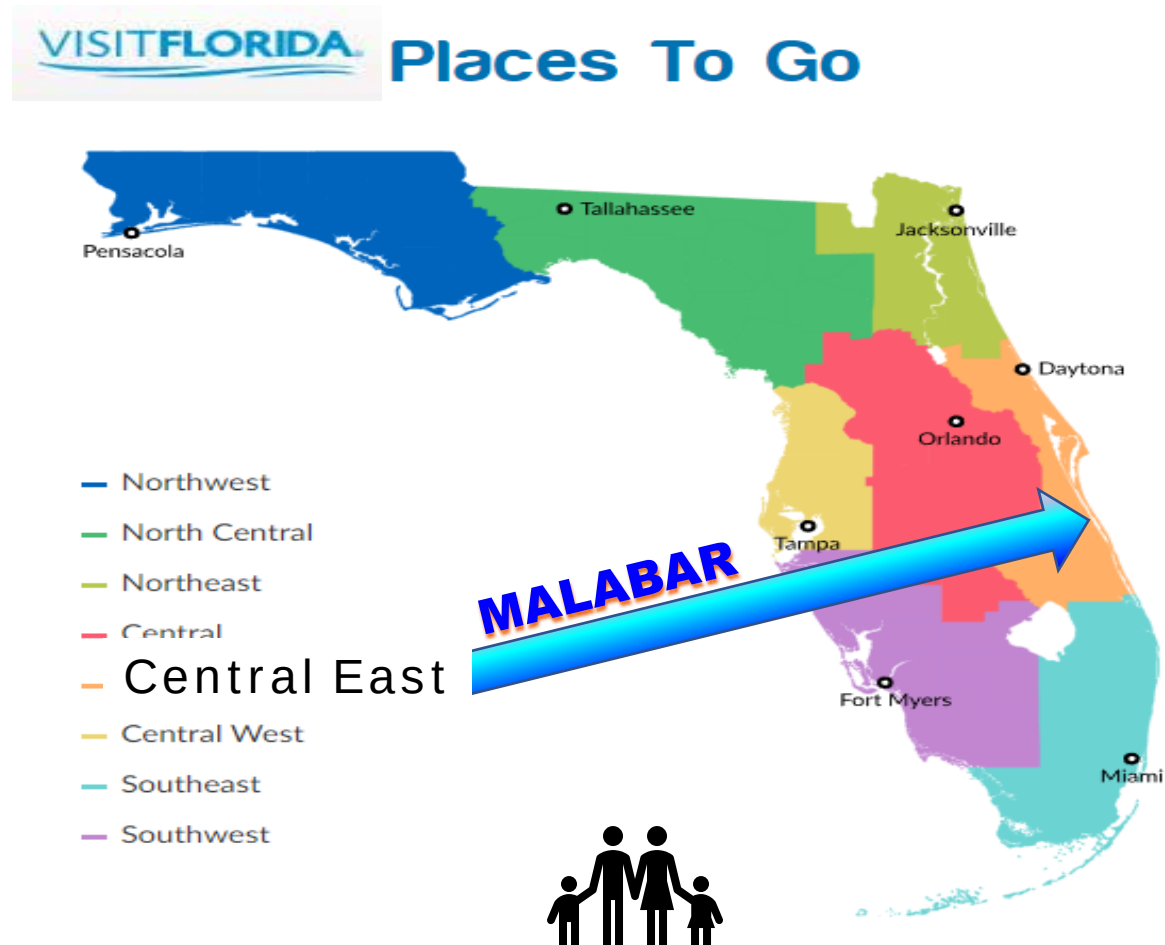


BIKE?

For those who want to experience real Florida, the state offers a diversity of locations with some recognized as a Florida Trail Town



Centrally located on the east coast of Florida
is the
Town of Malabar



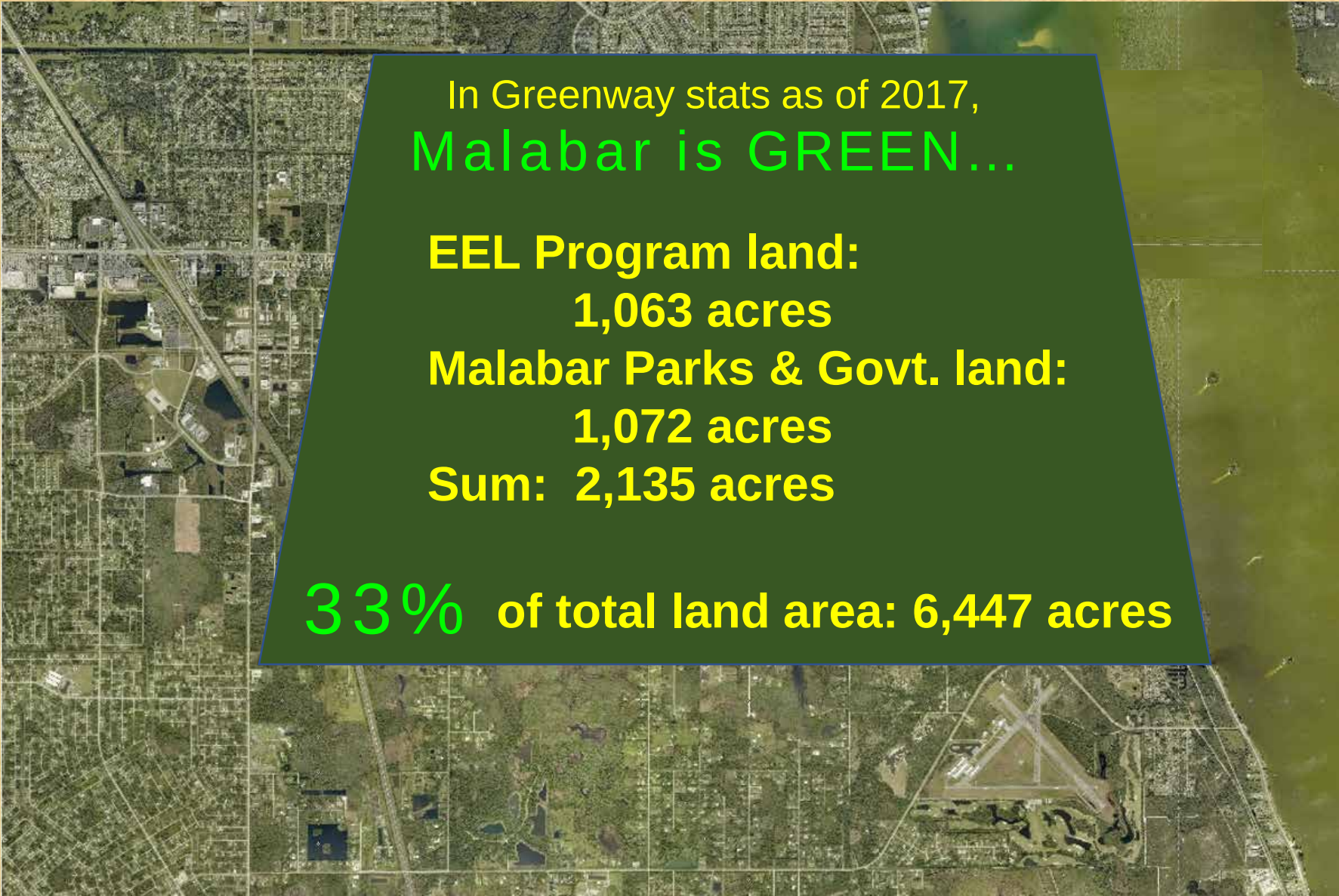
Malabar is located on the Indian River Lagoon (IRL), near Melbourne Airport, Port Canaveral, I-95, beaches, hotels, restaurants, hospitals, colleges and shopping



Malabar is a *different* kind of
Brevard County town...

Malabar borders the large population
concentration of southern Brevard County
yet Malabar continues to maintain its rural
environment



An aerial photograph of a landscape, likely a coastal area, with a green overlay containing text. The overlay is a dark green trapezoid with a blue border. The text is in yellow and green. The background shows a mix of green fields, some buildings, and a body of water on the right.

In Greenway stats as of 2017,
Malabar is GREEN...

**EEL Program land:
1,063 acres**

**Malabar Parks & Govt. land:
1,072 acres**

Sum: 2,135 acres

33% of total land area: 6,447 acres

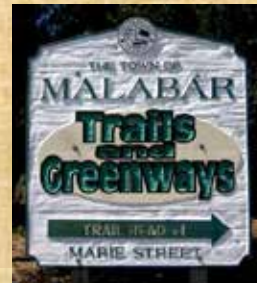
Malabar is committed to its trail system, with a very active Trails and Greenways Committee (T&GC) and strong support from residents and Town Council



<http://www.malabartrails.org> authorized & funded by TOM and maintained by T&GC, provides businesses and citizens of TOM with information regarding the trails of TOM

Unofficial Mission of the Trails and Greenways Committee (T&GC)

Plan, enhance, and maintain the trails and greenways of the Town of Malabar to assure the sustainability of our environmentally protected lands so that current and future generations are encouraged to get outside to safely enjoy nature. Coordinate these efforts by networking with neighboring communities so that the resulting trail system flows from one to another – serving all.





At the main TOM trailhead, the Sand Hill Trailhead #1, at 1400 Marie Street, there are now several AMENITIES which include:

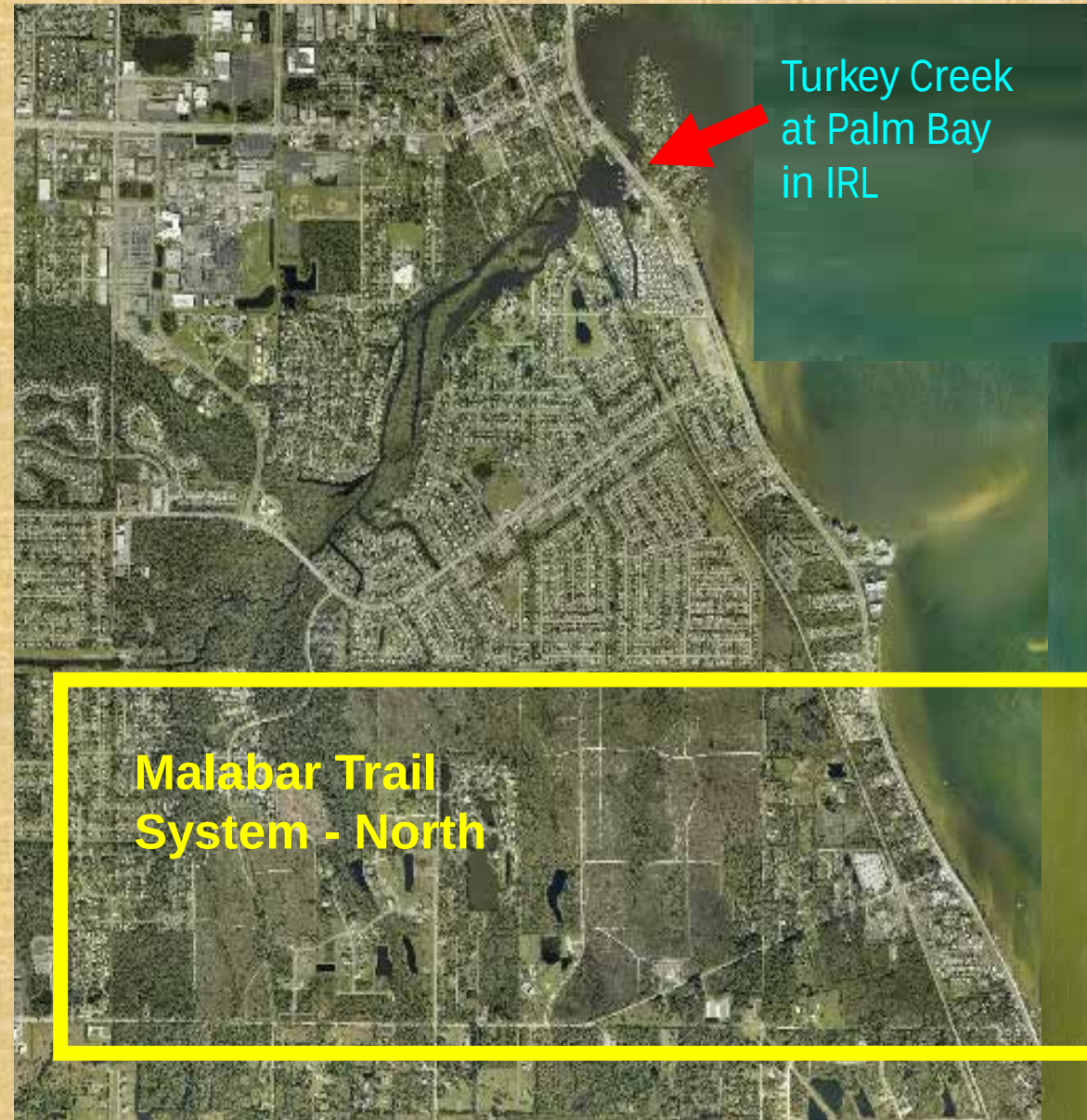
- **Kiosks** with aerial maps of the area trails and QR codes for links to Adobe maps online
- **Trail and trailhead signage** show nearby landmarks, seasonal alternate routes (summer flooding), other parking / trailhead access points, trail difficulty, trail use
- **TOM T&GC's new Cameron Trail Shelter** ("CTS") a roofed elevated deck that overlooks a seasonal wetland and provides trail users with a centralized point of shelter from sun and rain – as well as an observation point for viewing wildlife in the nearby wetland.
- An **"emergency" hotline** (limited to trail navigation assistance) that routes the trail user to a T&GC member's cell phone – to obtain help to trail users needing directional assistance back to their starting point.
- **ADA Restrooms and ADA Parking** – on the trail – for easy trail access by ADA users
- **Covered pavilion for outdoor events** needing shelter from sun or rain
- **Fire ring** – sometimes used by Boy Scouts or Trail Life members in organized events
- **Non-ADA parking** – including space for horse trailers

Additionally, to provide insight to additional trail AMENITIES directly at or near TOM trail entrances, it may be helpful to reference the numerous FL DEP grants awarded for trail projects of TOM and nearby locations that connecting to TOM trails:

- **2015** G-V - Town Connector Trail - Construction of 3,150 Linear Feet (LF) of six-foot wide natural surface trail – RTP Funds awarded: \$53,600
- **2014** TOM - Sand Hill Trailhead – ADA restroom and ADA parking – RTP Funds awarded: \$90,480
- **2012** CPB - Cross City Trail - Phase 1 - Construct 6,850 LF of trail - 2,930 LF sidewalk, 3,920 LF asphalt for new trail - – RTP Funds awarded: \$198,363
- **2004** – CPB - Boundary Canal Trail - Phase II - Multi-Use trails and related support facilities - – RTP Funds awarded: \$72,812
- **2002** – CPB - Boundary Canal Trail - Hard surface multi-use trail and related support facilities - – RTP Funds awarded: \$100,000
- **1998** – CPB - Turkey Creek Boardwalk - Construction of Boardwalk Trail - – RTP Funds awarded: \$10,000

A photograph of a paved trail winding through a forest of tall pine trees. In the foreground, a wooden sign with two stone pillars stands on the left side of the path. The sign has yellow text that reads "A CLOSER LOOK AT Malabar Trail System NORTH". The scene is captured from a low angle, looking down the path into the distance.

A CLOSER
LOOK AT
Malabar Trail System
NORTH



**New \$100M Harris Corp Engineer Center in
Palm Bay (1400 Employee Capacity)
Engineers are frequent trail users**



***Over 6,000 engineers
work at Harris in Palm
Bay. Many are mountain
bikers and/or trail
runners who regularly
use the Malabar Trail
System.**

**Malabar Trail
System - North**

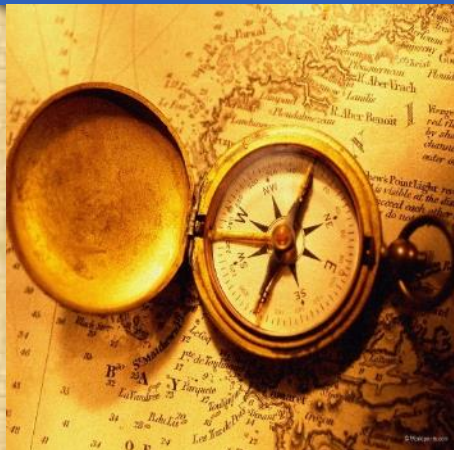
Brevard Greenways and Trails: Showcase Projects

- **Showcase Projects represent the best of Brevard County**
- **The Brevard County Space Coast Transportation Planning Organization (SCTPO), has defined 5 Showcase projects, one of which is the South Brevard “Al Tuttle” trail**
- **Goal of this presentation is to introduce a proposed trail alignment connecting Malabar southward to Grant-Valkaria**

Benefits of Greenways and Trails

- Provide outdoor recreation and opportunities to exercise close to home.
- Help conserve native ecosystems and landscapes by maintaining space that sustains the biodiversity of native plants and animal communities.
- Offer opportunities to support economic growth without sacrificing environmental quality.
- Provide “outdoor classrooms” where students can learn about native plant and animal species, ecosystems, and ecological processes.
- Provide (non-motorized) alternative transportation routes for commuting to work, school, local businesses, recreation sites and community destinations.
- Can help reduce air pollution and roadway congestion.

Four Of the Showcase Trails...



East Central Florida Regional Rail Trail



Brevard Zoo Trail



St Johns River Eco-Heritage Trail

STATUS: Coordination with DEP, St. Johns River Water Management District and the St. Johns River Alliance to begin prioritization process.

Stabilized trails and blueways along the St. Johns River with amenities for hikers, joggers, bicyclists, equestrians, naturalists, paddlers and the physically challenged. Trail users will be offered to experience the cultural, historical, recreational and natural beauty of the St. Johns, an American Heritage River.



North Merritt Island Trail



The Fifth of the Showcase Trails

South Brevard Al Tuttle Trail

STATUS: Trail design is currently being conducted from Valkaria Road south to Grant Road.

A natural and paved multi-use trail with amenities for hikers, joggers, bicyclists, roller bladers, equestrians, and the physically challenged. The trail will link the communities of Malabar, Palm Bay, Valkaria, Grant and Micco to existing parks, conservation areas, and community destinations.

Area of interest



The north area of Malabar's trail system includes the Al Tuttle Trail, an ADA compliant paved Trail section originally funded through FL FDEP OGT





AI Tuttle Trail Draws Many Area Users



The Malabar Trail System emphasizes community connectivity – below is Capon St. Kiosk in Palm Bay at a pedestrian bridge that provides access to Al Tuttle Trail



Another example of community connectivity – below is Port Malabar Blvd. Kiosk in Palm Bay at northernmost trailhead providing access to Al Tuttle Trail



The paved Al Tuttle has no motorized vehicles
so it provides a great place for folks to get
outdoors and enjoy nature



The Malabar Trail System – North
= Cameron Preserve in the middle
bordered by Malabar Scrub Sanctuary
East and West

Based on EEL Program trail camera traffic projected at 12 months, the Malabar Scrub Sanctuary has trail use rate of 38,000 visits per year!



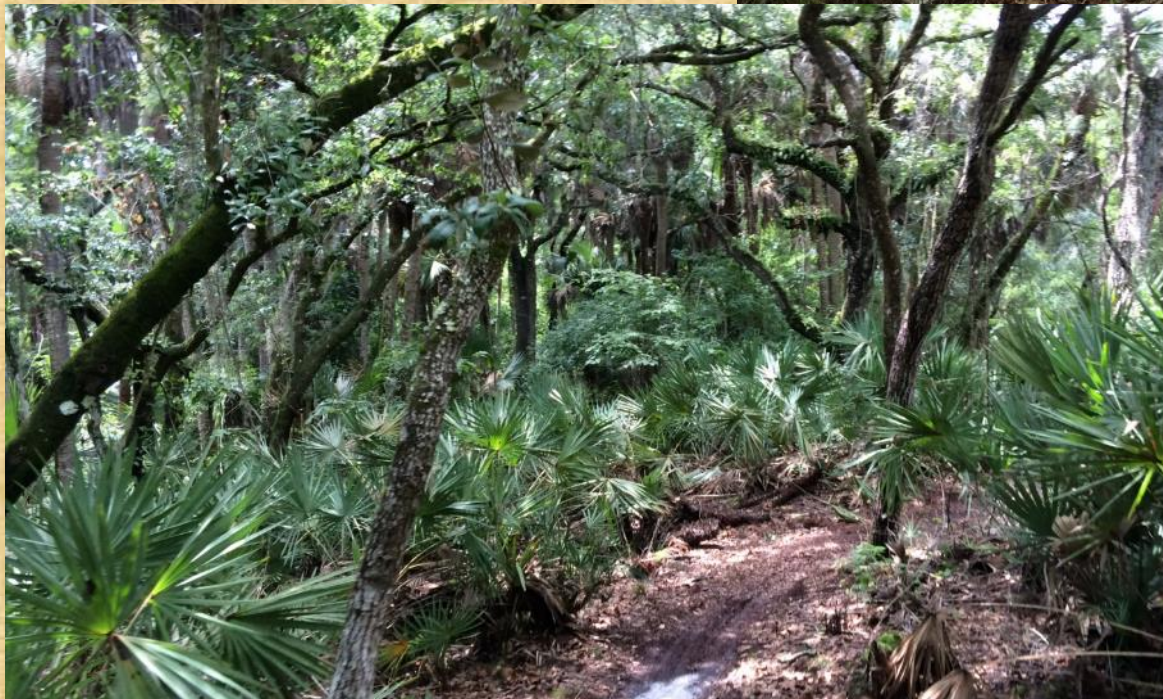
Numerous unpaved marked trails connect with and are located to the south and west of the Al Tuttle



Malabar N. Corey Road Trailhead



Malabar Trails
Considered
“Ideal” Florida
Singletrack

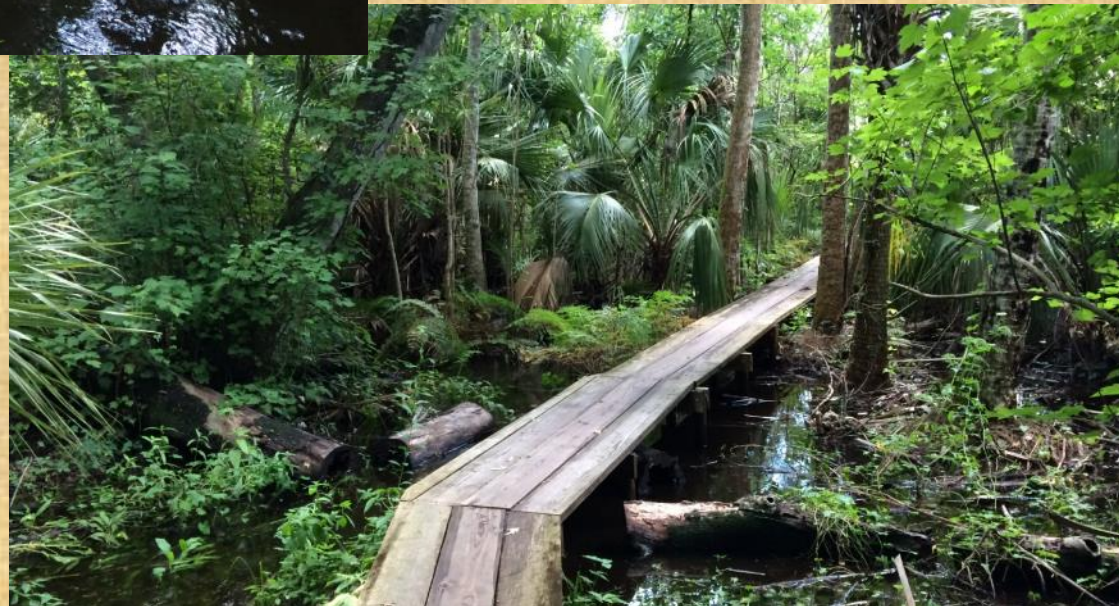


Malabar's Amazing Natural Trails



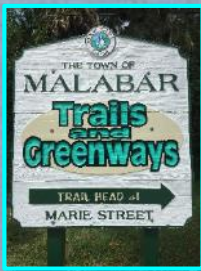
**The main loop in
Malabar Trail
System – North
has about 12
miles of trails**

**Jordan Scrub
in Malabar Trail
System - South
contains about
8 additional
miles**



The Malabar Trail System - North includes multiple bridges designed to maintain natural trail width





Malabar Sand Hill Trailhead #1: Al Tuttle Trail



This multi-user trailhead starts the Al Tuttle Trail which is part of the **SOUTH BREVARD LINEAR TRAIL SYSTEM**



Trail Restroom Grant concept and the *Real McCoy*, on the trail with a drinking fountain

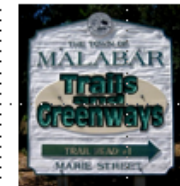


Main goals of Grant are shown in this picture

- Add ADA accessible restroom directly adjacent to Al Tuttle Trail (FDOT # 4154961); to serve that trail system
- Add potable water supply for trail users (small RO type water treatment system, water fountain, public use certified)
- Water lines from existing well
- Septic system for restroom
- Add ADA Parking Spaces, Paved, directly adjacent to trail



Exhibit F: Photo 1
Proposed Restroom
Location Directly on
Completed Trail



CAMERON TRAIL SHELTER

Built by T&G Committee & Volunteers



Cameron Trail Shelter

Provides shade from sun and cover from rain



Located at a main, remote intersection of
several trails in Cameron Preserve and
designed for possible future ADA trail
connection



CAMERON TRAIL SHELTER

INSIDE SIGNAGE



Another connection of the Malabar Trail System is Turkey Creek



Signage at kayak launch parking at Turkey Creek Sanctuary, Palm Bay – a short distance from a connecting trail of the Malabar Trail System



Kayak launch trailhead at Turkey Creek Sanctuary,
Palm Bay – a short distance down a connecting trail
of the Malabar Trail System

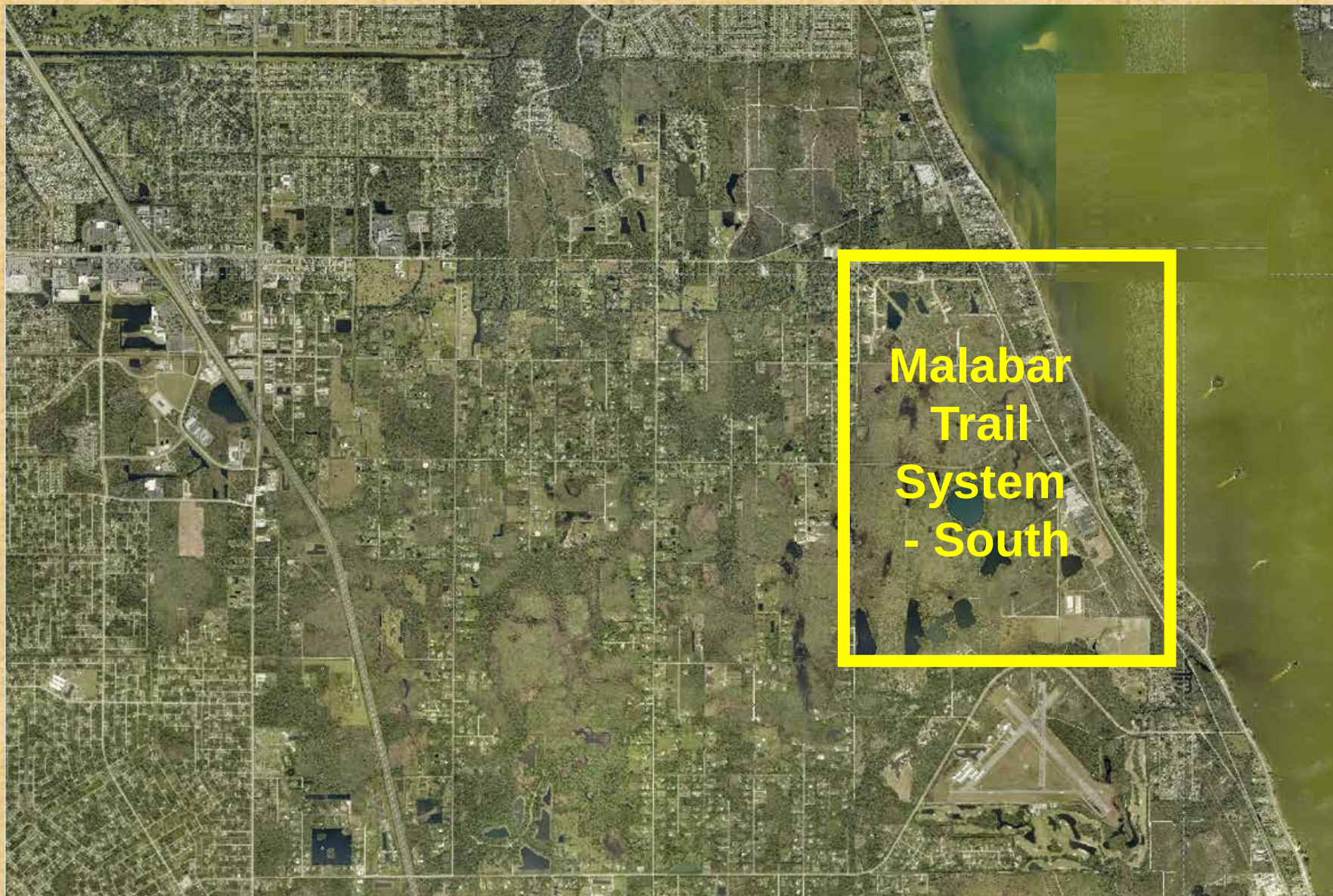


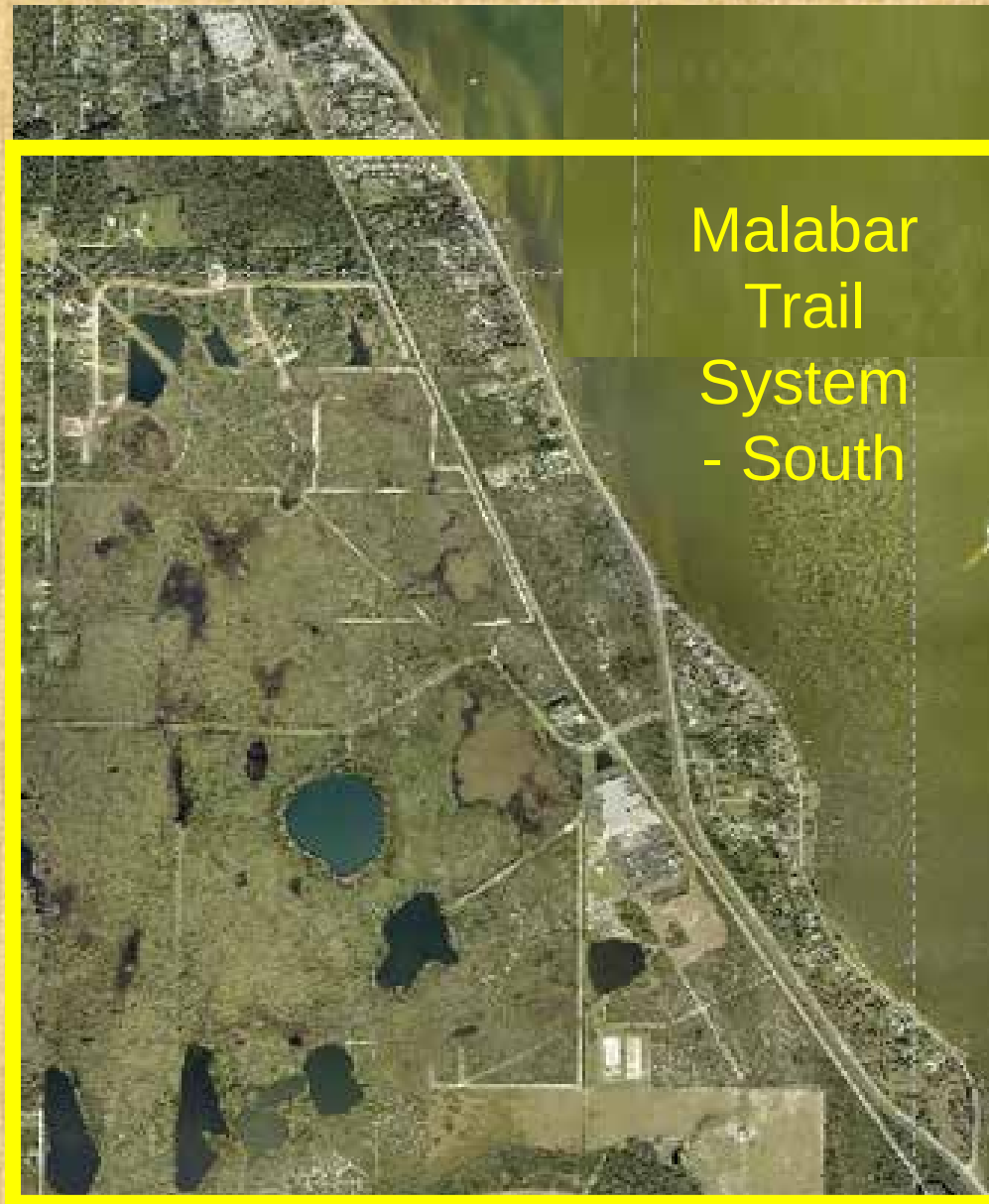
A manatee “happy roll” on Turkey Creek Sanctuary,
Palm Bay – a short distance down a connecting trail
of the Malabar Trail System



A stone and wood signpost stands on a paved trail. The signpost has two grey stone pillars with a wooden board between them. The text on the sign is yellow. The trail is paved and curves to the right. The background is filled with tall pine trees and greenery under a bright sky.

A CLOSER
LOOK AT
Malabar Trail System
SOUTH









The Malabar Trail System area offers nearby dining including two great restaurants located in Malabar...



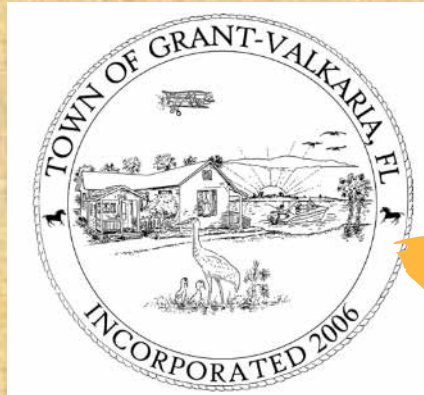
Special thanks to Karen McLaughlin of Karen's Kayaks, for kayaking photos on Turkey Creek shown in this presentation

Special thanks to Michael D Kurrus for several recent drone videos in this presentation

Special thanks to Michael Higley for winter drone video of CTS construction shown in this presentation

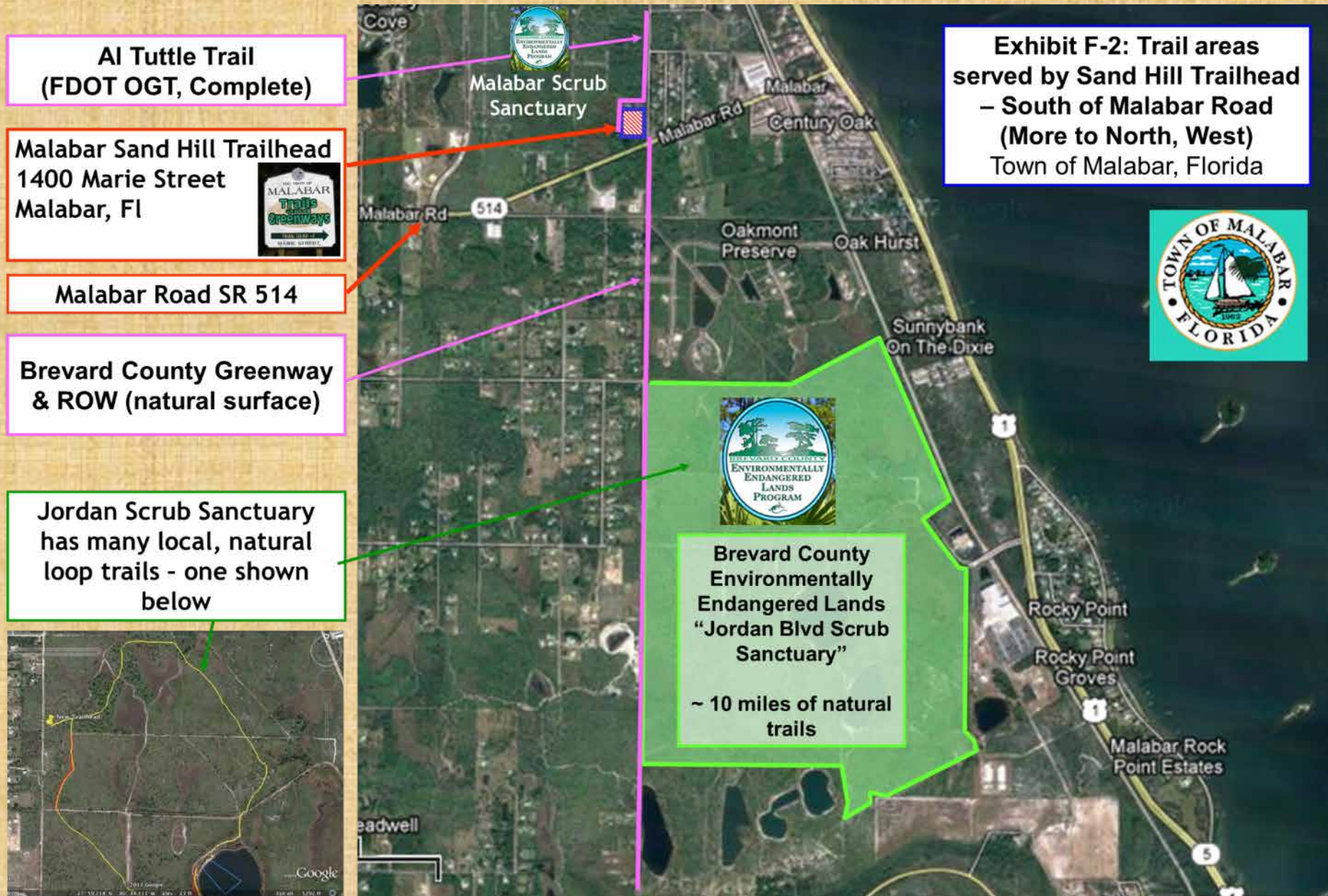


Working
together for
mutual benefit



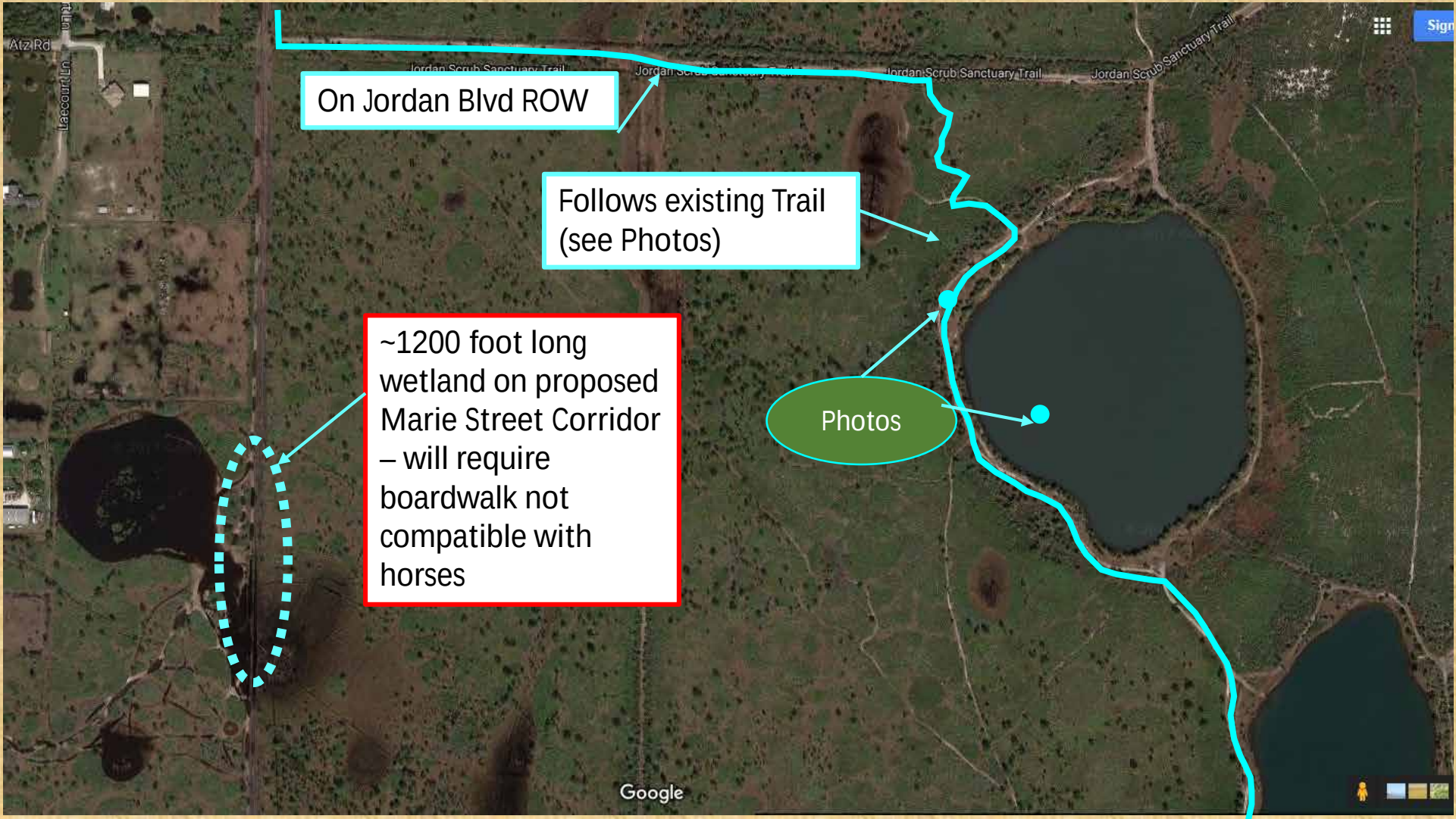
- Planning session held Jan 12, 2017 in a joint workshop between the Malabar Trails and Greenways Committee, and the Grant-Valkaria Greenways and Trails Board
- Summary: After extensive review and discussion of alternatives, the Twin Lakes Alignment is believed to be the best trail connections between the two towns

Trail Connectivity – Malabar Trail System South of Malabar Rd



Malabar to Grant-Valkaria “Town Connector” Trail – Twin Lakes Alternative

- **Currently the South Brevard Linear Trail Alignment (Defined by the SCTPO) runs down the Marie Street ROW, and encounters ~1000-1200 feet of wetlands in the Jordan Scrub area**
- **The current alignment would necessitate a very long boardwalk section, which is not compatible with equestrian use**
- **An alternative route, through the EEL Pgm Jordan Scrub preserve would offer a much more appealing route, for several reasons:**
 1. **Utilize mostly existing double-trac trails**
 2. **Much less boardwalk required**
 3. **Much better experience for the user.**
- **The EEL Pgm Jordan Scrub Management Plan envisioned that the South Brevard Linear Trail may need to run through Jordan Scrub, and this is included in the current management plan**
- **The Greenways and Trails Committee/Board of both Malabar and G-V believe the alternative shown here is a much better route: It would have far less environmental impact, less boardwalk, and would provide a better user experience.**



On Jordan Blvd ROW

Follows existing Trail
(see Photos)

~1200 foot long
wetland on proposed
Marie Street Corridor
– will require
boardwalk not
compatible with
horses

Photos



Follows existing Trail
or fire breaks (see
Photos)

This area seasonally
wet – but trail is the
low point (old worn
deep ATV trail)

Options
South

Malabar Trail System Summarization & Future Plans



The Future for the Malabar Trail System
is all about more CONNECTIONS!

**Connection South: Complete the Al Tuttle
Trail to Grant-Valkaria**

**Connection West: Connect the off-road
trail system to the Grapefruit Trail**

Then, Now, the Future

√ **The Genesis: It all started with a vision to make Malabar the most trail friendly town in Florida**

- **~33% of Malabar's area is set aside in preserved or govt. property**

√ **20 Years of Volunteer Efforts Later we have:**

- **Trail – Paved: ~5 miles**
- **Trail – Unpaved: ~25 miles**
- **Trailheads: 2 major, multiple minor 3rd major in design**
- **Active Trails and Greenways group that has formed excellent relations with:**
 - **Land Managers (EEL Pgm, City of Palm Bay)**
 - **Brevard County (BPTAC)**
 - **Brevard Mountain Biking Association (BMBA)**

√ **Connectivity plans to adjacent communities**

- **Near Term Plans to the South (Grant-Valkaria) and West (Palm Bay)**

The Malabar Trail System Vision

- **Make the South Brevard trails even better**
- **The Grapefruit Trail (GFT) is actually very near the Turkey Creek Trail System (TCT: in Palm Bay and Malabar). It can be connected to that system using the South bank of the C1 (existing grassy road), and an old existing trail. An overall map is provided to show the geographic relationship**
 - **Help us connect the two trail systems, for a “total South Brevard” mountain bike & hiking trail system**
 - **This change would transform the trail system, and greatly improve off-road bicycling and hiking in South Brevard**
 - **It is also safer, as there is no road in between riding areas**
 - **Trail crosses through deep woods with stunning views of Turkey Creek, fostering an appreciation of the wild areas around us**

Audubon Property Adjacent to Turkey Creek Area



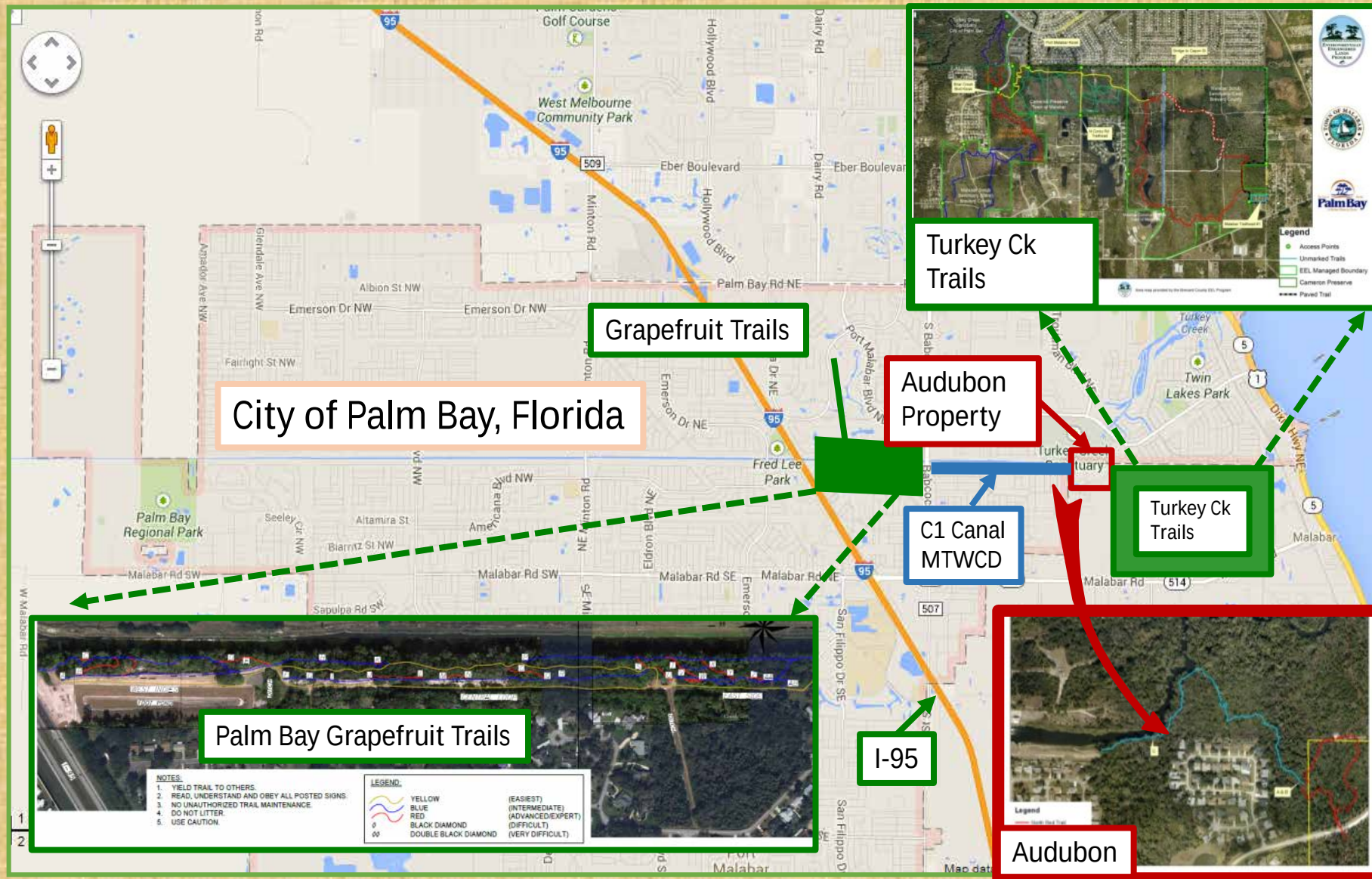
Already Underway to the North and Slightly
West of the Malabar Trail System – North...

Connection West, to City of Palm Bay

Grapefruit Trail to Turkey Creek Trail Connector

Clear Connectivity Concept:
***Connect the Superb Cross-Country Malabar Trail System
to the Finest Freeride Trail System***

Connect the Turkey Creek Trails to the Grapefruit Trails Via the Audubon Property and the S Bank C1 Canal Public ROW



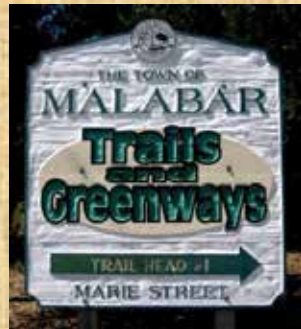
Destination: Grapefruit Trails



The Finest Freeride Trail System in Florida

This concludes the Presentation.

Any Questions?



Thank You