2020 HABITAT MASTER PLAN UPDATE

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FWC-CHIMMP SYMPOSIUM

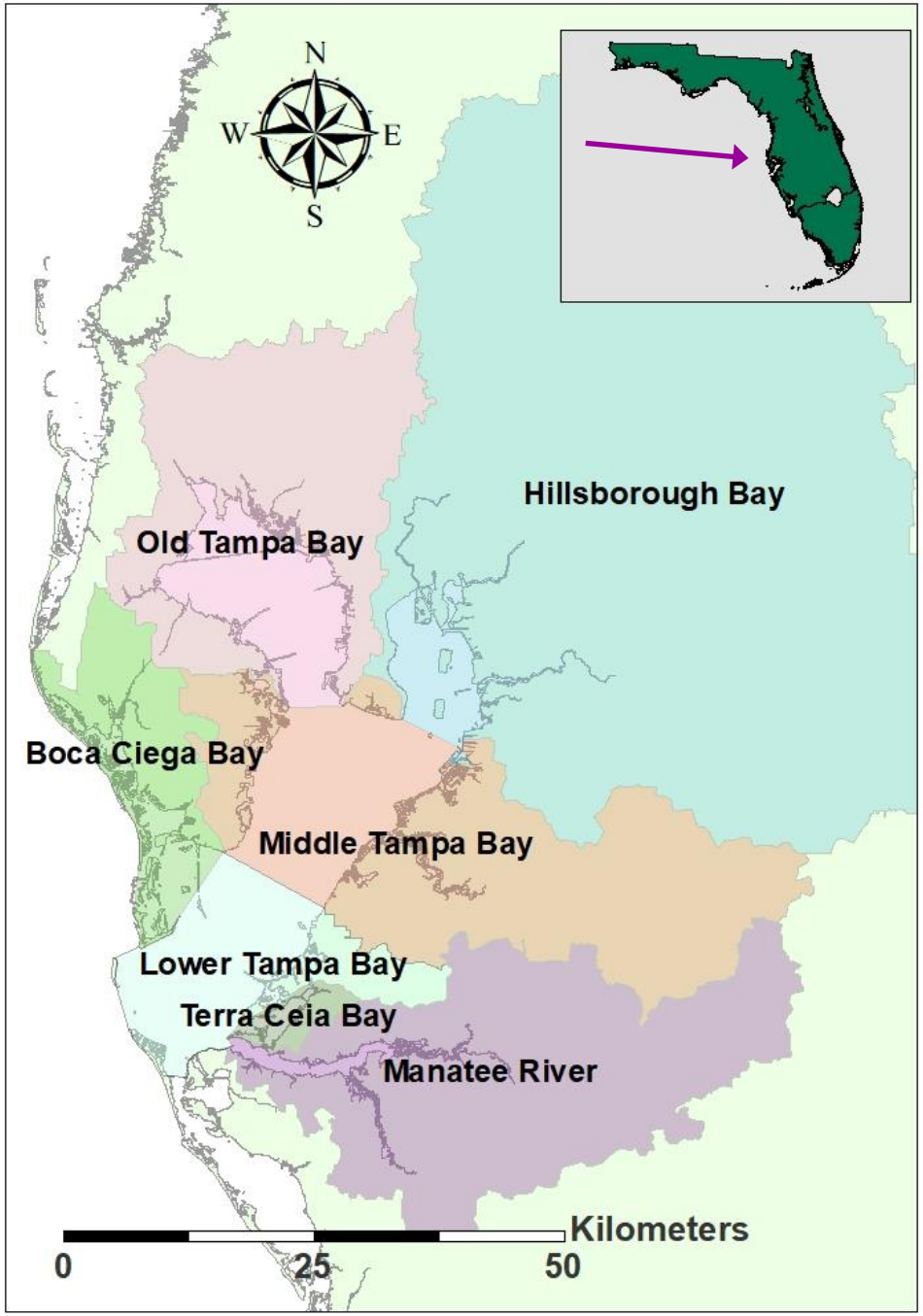
MAY 12, 2020

OVERVIEW

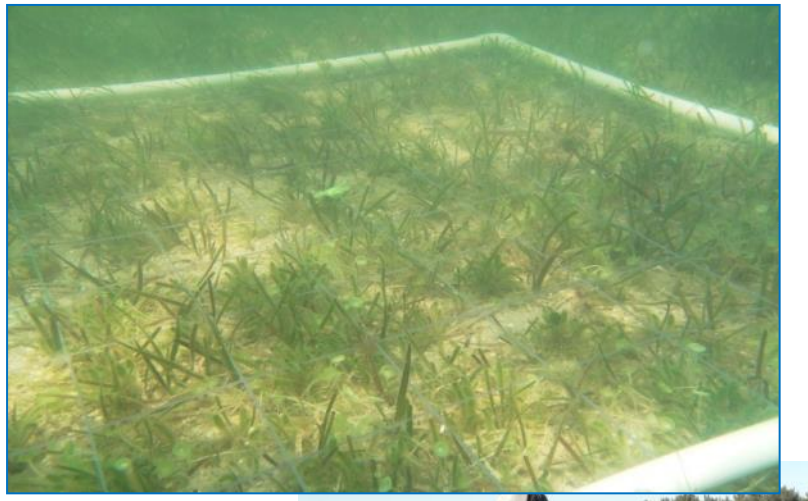
- Tampa Bay & TBEP
- Layers & data informing restoration
- DRAFT targets and goal narratives
- Urban options
- Research & Monitoring needs

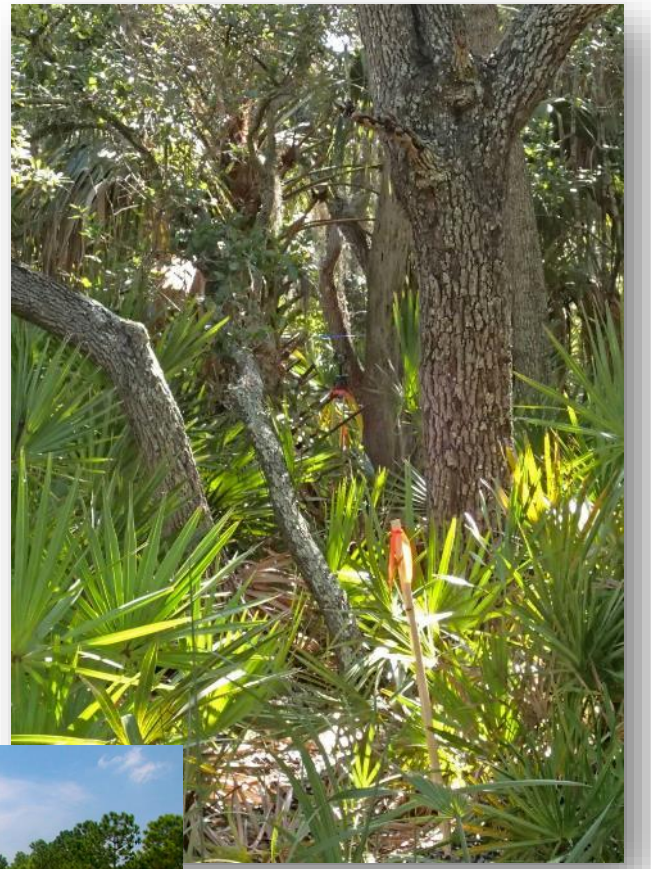
TAMPA BAY

- **Watershed: 2200 square mi**
- Open water: 400 square mi
- Avg depth: 11 ft
- Population: 3.1 million



HABITAT MOSAIC





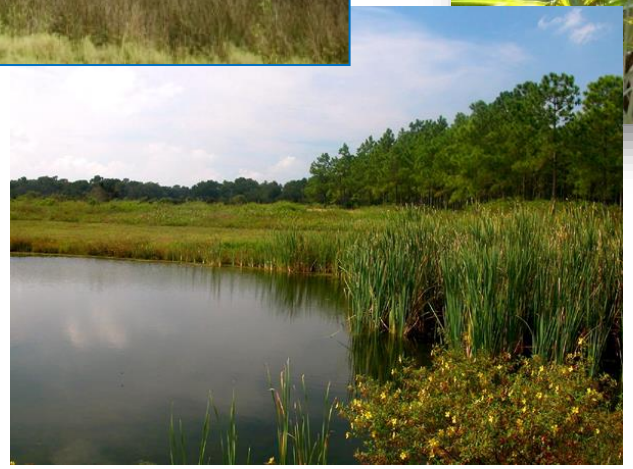


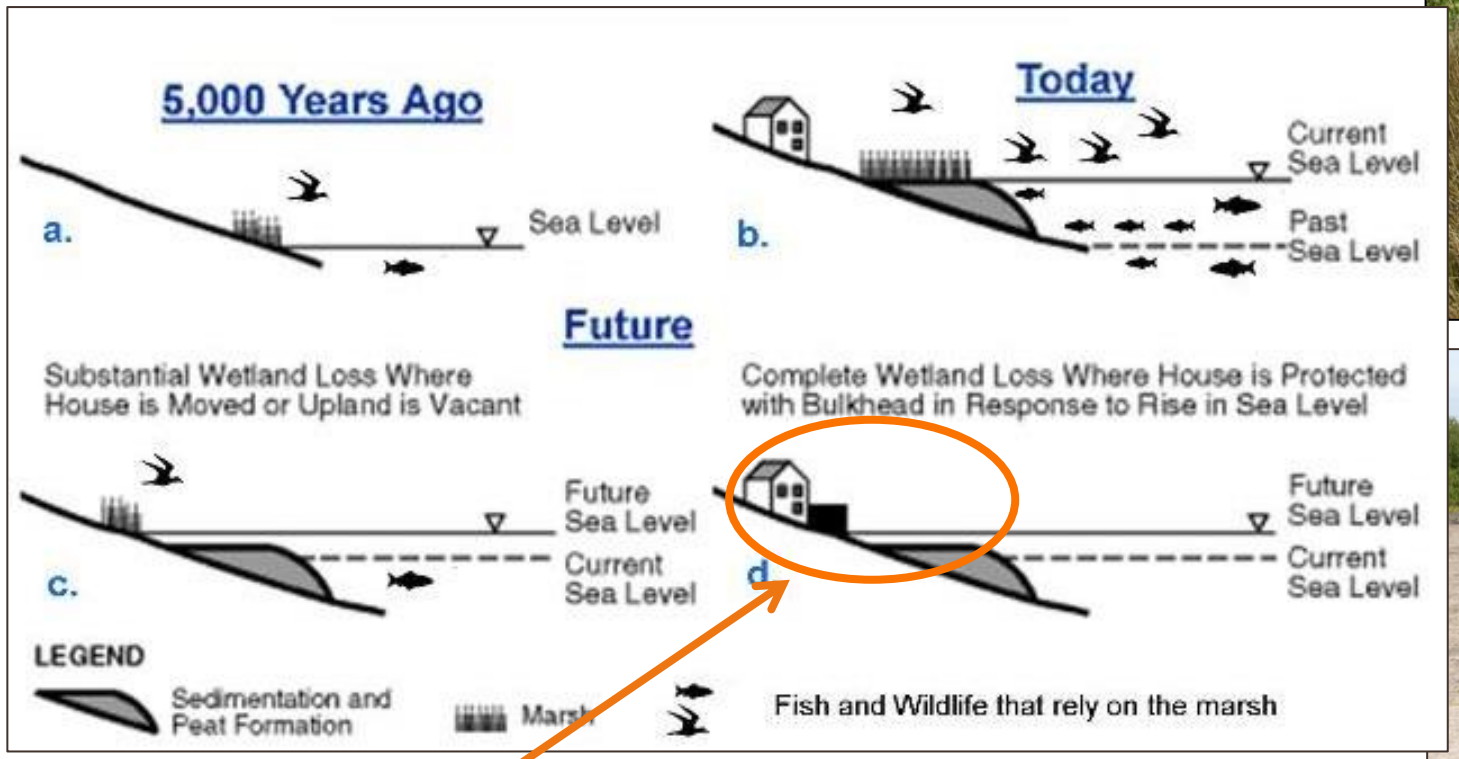
Photo credits: ESA, FWRI, & TBEP

PRINCIPLES

Photo credit: G. Raulerson

- Targets based on what is possible
- Considers a dynamic environment
- Addresses the full suite of native habitats

Climate Change: Sea Level Rise & Global Warming



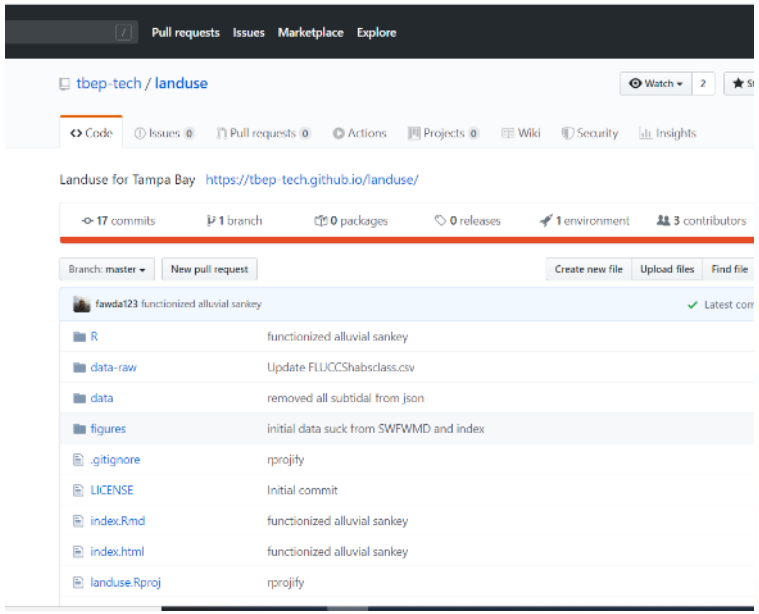
Cedar Stump

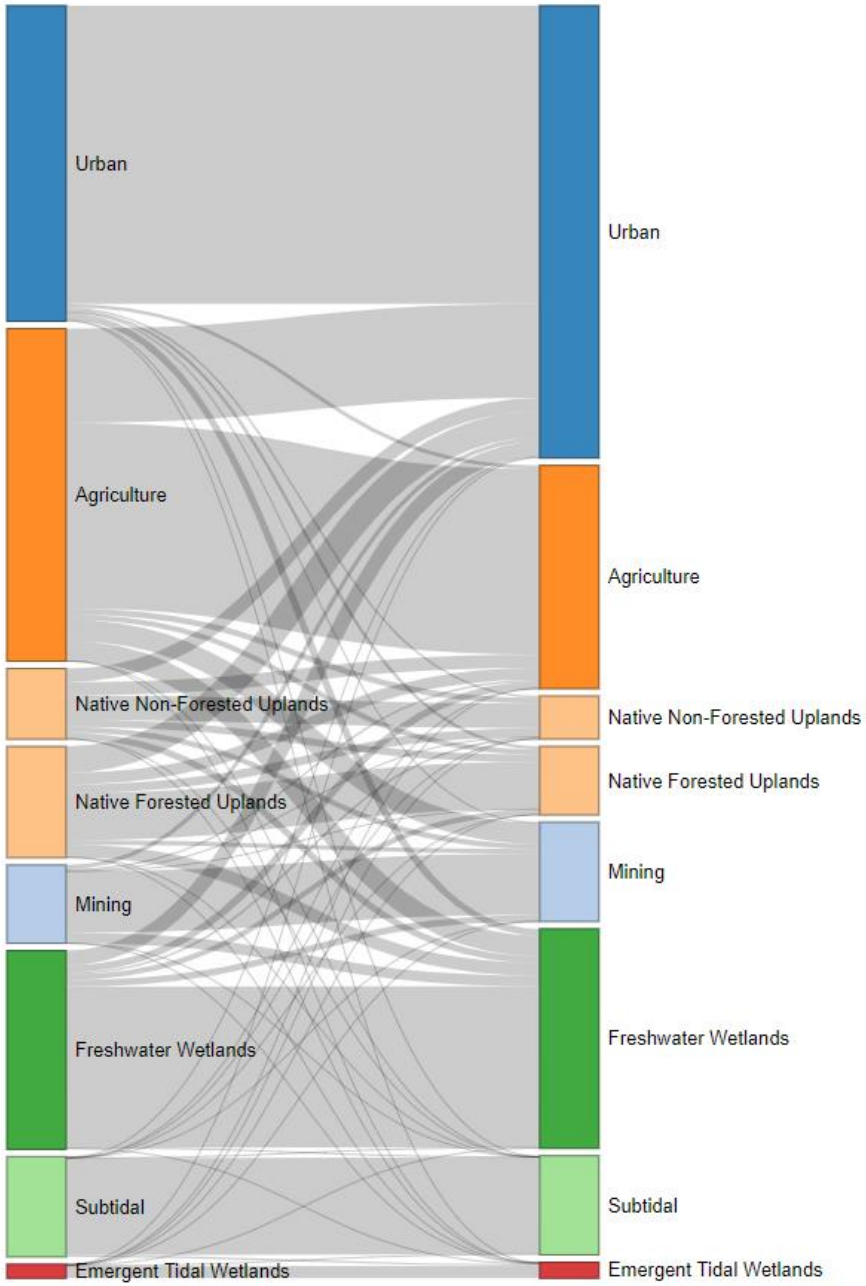
The “pinch out” effect

Photo credits: D. Robison

HABITAT STATUS
MAPPED EXTENT

Mapped Extent

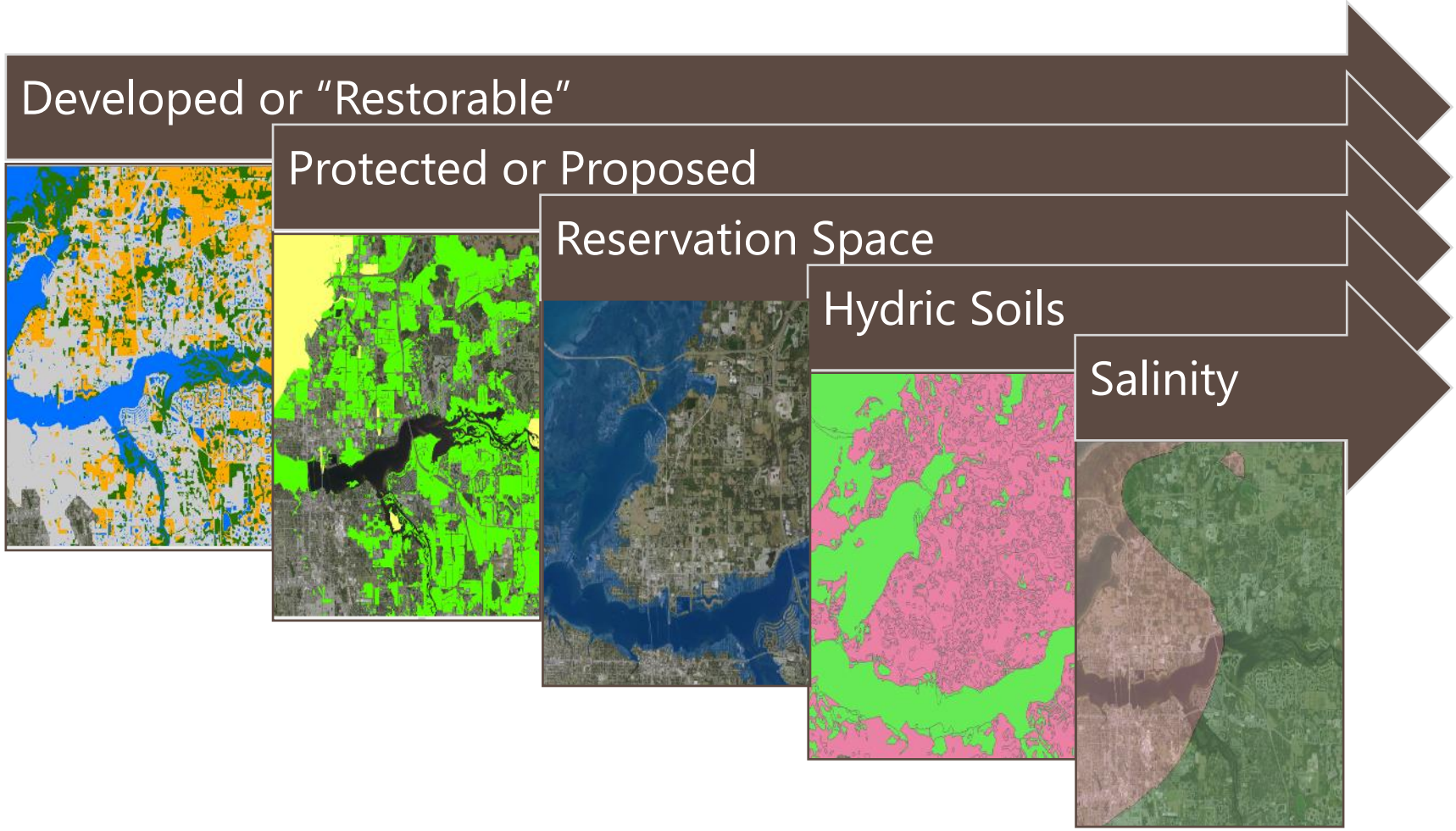




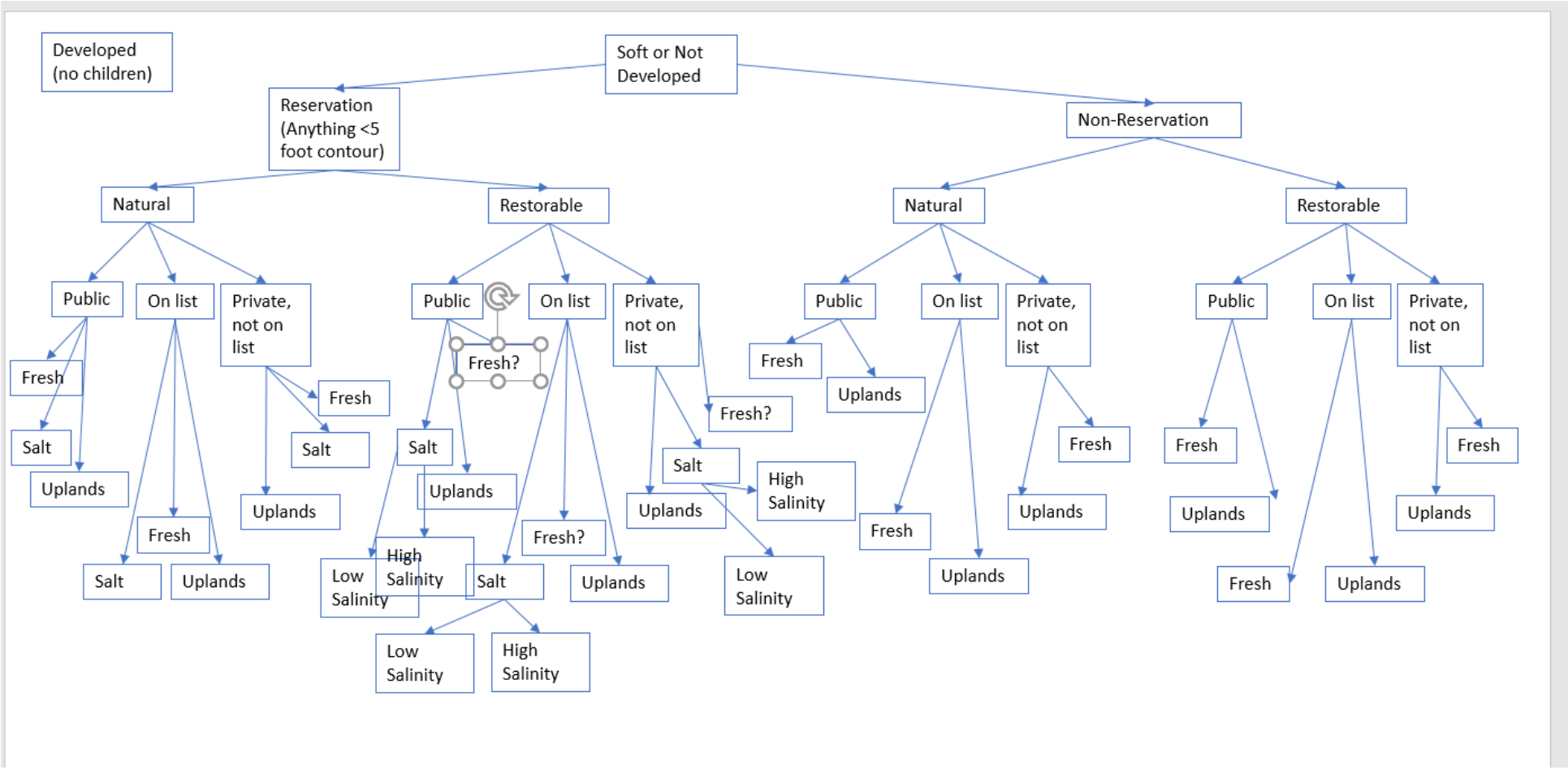
https://github.com/tbep-tech/landuse

RESTORATION POTENTIAL
STRATA

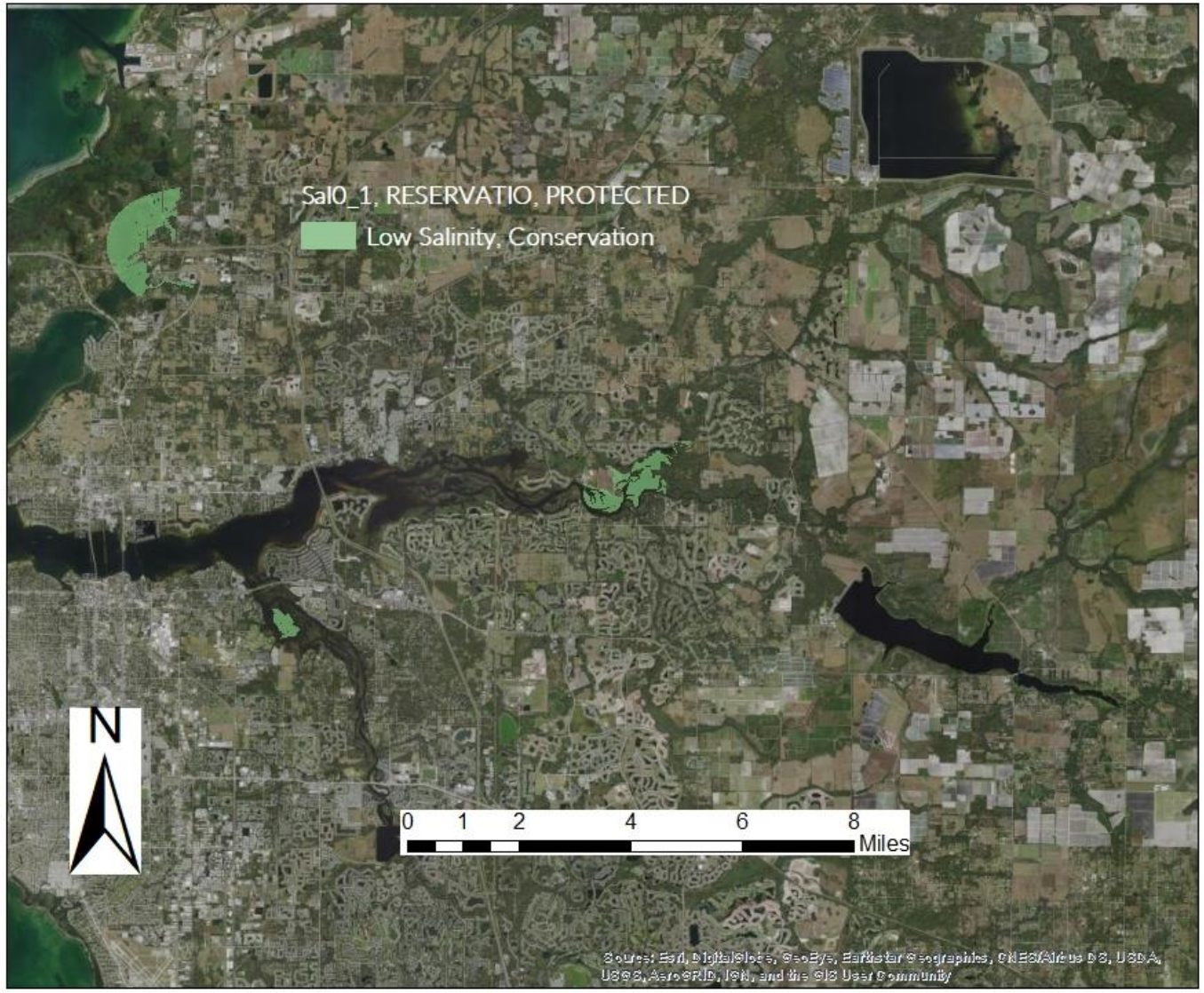
Restoration Potential



RESTORATION POTENTIAL
DECISION TREE



RESTORATION POTENTIAL
COMBINING STRATA – *JUNCUS* MARSH



- Restorable
- Public ownership
- Reservation
- Hydric soils
- Low salinity
- 193 acres bay-wide

PROPOSED 2030 TARGETS & 2050 GOALS
HISTORIC RESTORATION ACTIVITY

Time Period	Total	Tidal	Fresh-Water	Uplands	Mixed
Pre-2001	857	477	118	45	217
2001-2010	2078	767	170	354	788
2011-Present	2413	848	903	472	190
Totals	5349	2092	1191	871	1195

PROPOSED NARRATIVE TARGETS AND GOAL (2030/2040/2050)

Habitat Type	Restoration and Protection Rationale (2030/2040/2050)
Subtidal Habitats	
Artificial Reefs	Protect existing + enhance habitat complexity
Hard Bottom	Protect existing hard bottom; identify new
Seagrasses	Protect existing; new lower limit of 40,000 acres
Tidal Flats	Protect existing
Oyster Bars	Protect existing oysters + restore 50/100/150 acres; filtration rate and HSI
Intertidal Habitats	
Total Intertidal	**Protect existing + restore 1,000/1,150/1,300 acres**
Mangrove Forests	Protect existing + restoration opportunities in mosaic
Salt Barrens	Protect existing + restore 50/100/150 acres
Juncus salt Marshes	Protect existing + restore 250/300/350 acres
Living Shorelines	Construct 1/1.5/2 miles of Living Shoreline each year; includes private seawalls; better define opportunity areas
Supratidal Habitats	
Coastal Uplands	Protect existing + restore 150/200/250 acres (upland restoration total 600 acres)
Non-forested Freshwater Wetlands	Protect existing + restore 1,350/1,400/1,450 acres
Forested Freshwater Wetlands	Protect existing + restore 150/200/250 acres
Native Uplands	Protect existing + restore 450/500/550 acres (upland restoration total of 600 acres); pine flatwoods focus

URBAN OPTIONS

Photo Credits, clockwise from top:
National Fish Habitat Partnership
Nanette Holland O'Hara
Tom Ries, ESA

MONITORING AND ASSESSMENT NEEDS

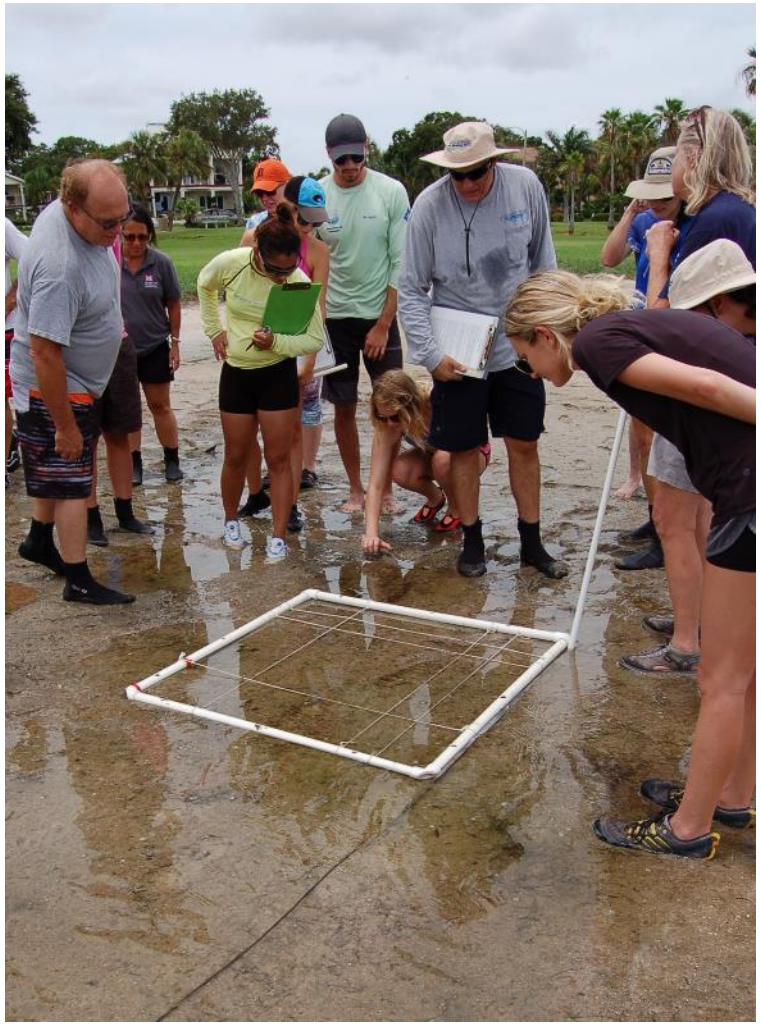
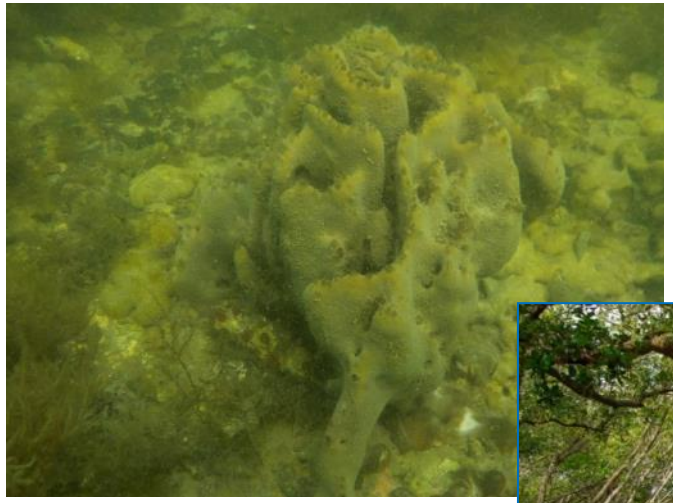


Photo credit: G. Raulerson

- Comprehensive oyster survey
- Complete hard bottom assessment
- Map persistent tidal flats
- Biennial coastal LULC
- Tidal tributary assessment
- Habitat Restoration sites

2020 HABITAT MASTER PLAN UPDATE



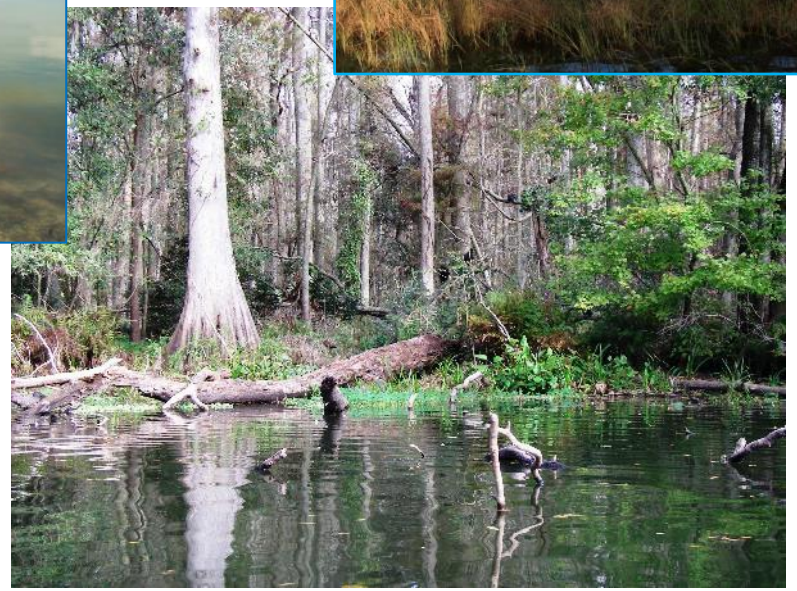


Photo credits: ESA, FWRI, & TBEP

THANK YOU

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www.tbep.org

*This picture was taken in 2019, well before social distancing requirements ☺