



# 2018 Port Everglades Master/Vision Plan Update

Environmental Stakeholder Meeting #1

July 19, 2018



# Overview

**Introduction**

**Direction and Strategy**

**Work Completed to Date**

**Early Observations**

**Your Input**

# Introduction



## Major policies influencing the 2018 Update

- Port Everglades mission
- Role of Port Everglades in the community
- Financial goals
- Growth strategies
- Environmental footprint
- 2014 Update, including successes and limitations

Port Everglades is Florida's powerhouse global gateway. A respected leader in trade, travel and financial stability, we create economic and social value by working in partnership with world-class clients.

We achieve advancements focusing on efficient facilities, trade and cruise expansion, jobs growth, safety, security and environmental stewardship for our customers, stakeholders and community.

As part of a regional transportation system, the purpose of Port Everglades is to create and promote commerce and industry by developing, marketing, maintaining, operating, improving, regulating, and managing the Port and harbor facilities.

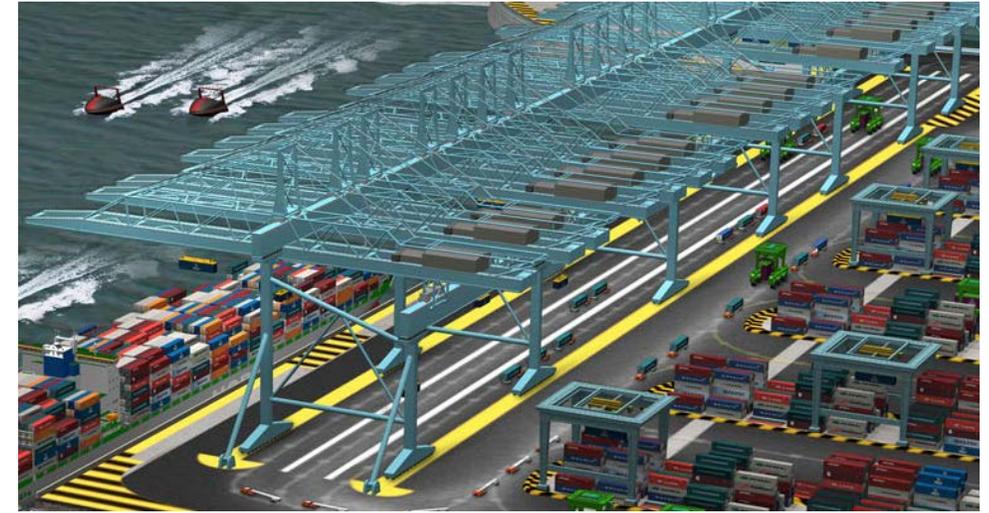
# Strategic Framework

**Practical**

2018

*Status of 5-Year Projects  
from 2014 Update*

Port Area	Project ID	Project Name	Status
Northport	N1	Slip 2 Westward Lengthening	Completed (FY2017)
	N2	Berths 1, 2, and 3 New Bulkheads	Pending (FY2021)
	N3	Slip 1 New Bulkheads and Reconfiguration - Phase 1 (Berths 9/10)	Underway (FY2023)
	N4	Neo-Bulk Storage Yard	Pending (TBD)
Midport	M1	CT 25 Improvements/Expansion	Underway (FY2018)
Southport	S1	Southport Phase 9b Container Yard	Completed (FY2018)
	S2	Southport McIntosh Road Gate Lane Addition	Underway (FY2019)
	S3	Westlake Mitigation (Southport Turning Notch Extension)	Underway (FY2020)
	S4	Super Post-Panamax Cranes (3)	Ordered (FY2020)
	S5	Foreign-Trade Zone Relocation	Underway (FY2020)
	S6	New Crane Rails (Berths 30, 31, and 32)	Underway (FY2020)
	S7	Southport Turning Notch Extension	Underway (FY2022)
	S8	Southport Phase 9a Container Yard	Pending (FY2022)
Portwide	S9	USACE Deepening and Widening Design	Pending (FY2023+)



*Port of the Future?*



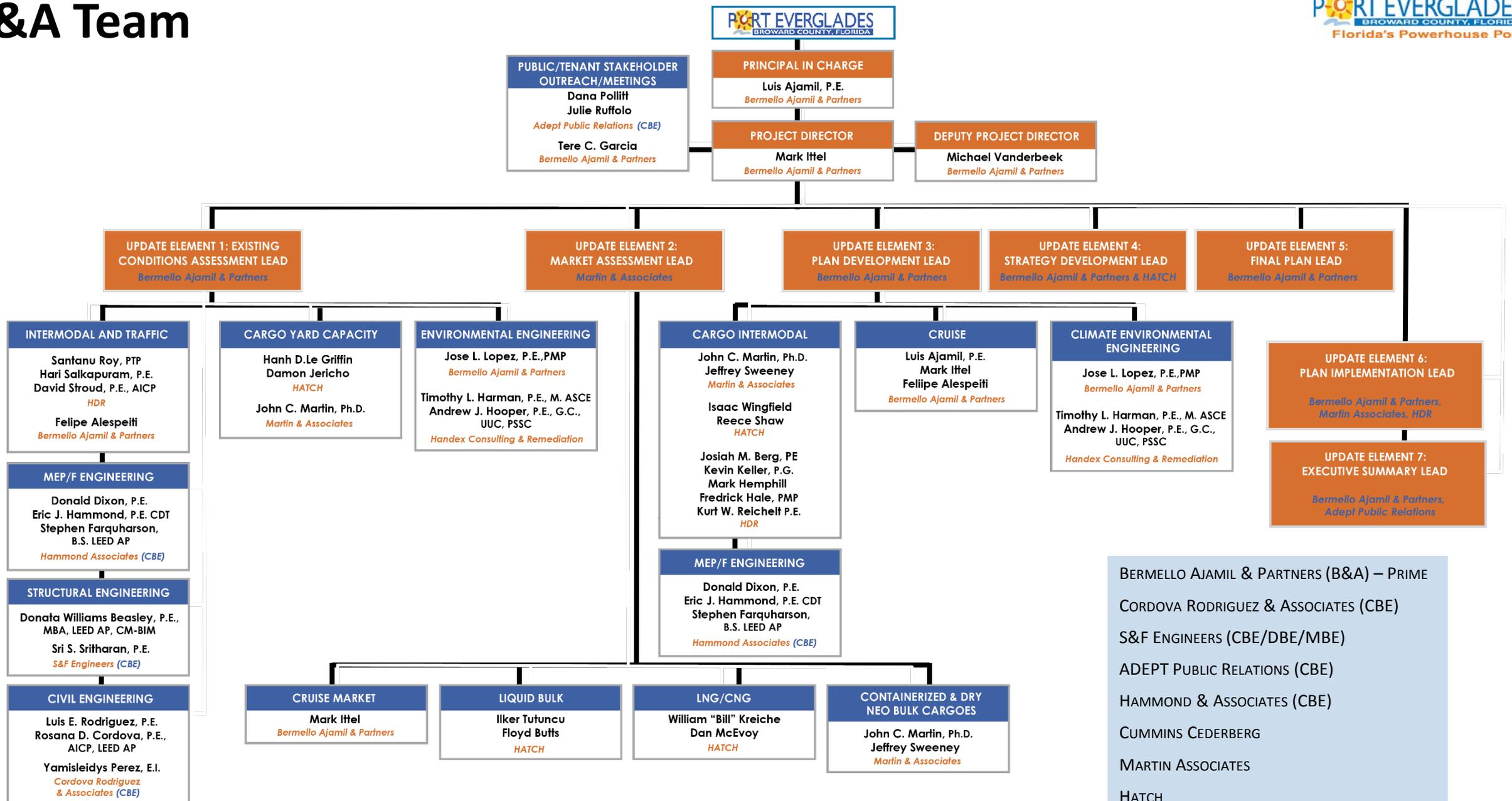
2023

2028

2033

2038

**Visionary**



- BERMELLO AJAMIL & PARTNERS (B&A) – PRIME
- CORDOVA RODRIGUEZ & ASSOCIATES (CBE)
- S&F ENGINEERS (CBE/DBE/MBE)
- ADEPT PUBLIC RELATIONS (CBE)
- HAMMOND & ASSOCIATES (CBE)
- CUMMINS CEDERBERG
- MARTIN ASSOCIATES
- HATCH
- HDR

# Schedule

## 4 phases... 52 weeks

	April	May	June	July	August	September	October	November	December	January	February	March
<b>Phase I</b> <ul style="list-style-type: none"> <li>Existing Conditions Assessment</li> <li>Market Assessment</li> </ul>												
<b>Phase II</b> <ul style="list-style-type: none"> <li>Plan Development</li> <li>Strategy Development</li> <li>Final Plan</li> <li>Plan Implementation</li> </ul>												
<b>Phase III</b> <ul style="list-style-type: none"> <li>3-D Computer Animated Video</li> </ul>												
<b>Phase IV</b> <ul style="list-style-type: none"> <li>Broward County Comprehensive Plan Update</li> </ul>												

# Direction and Strategy



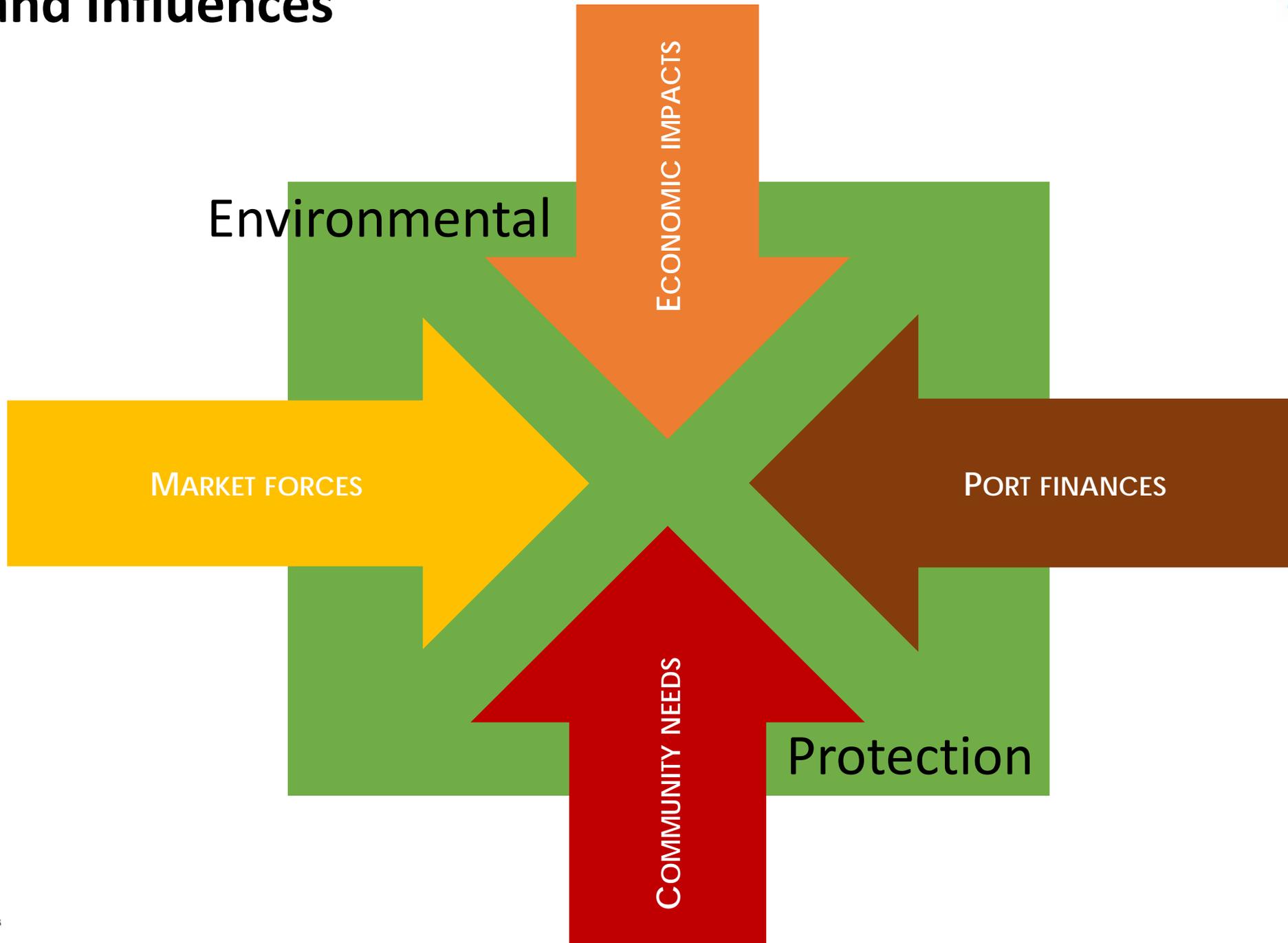
## Add value to the industry and to the community

- Define local, regional, national and global role
- Identify stakeholder needs
- Enhance ability to meet stakeholder needs
- Identify opportunities to grow volume and revenue within a diversified portfolio
- Balance economic, environmental and community interests
- Preserve flexibility to adapt to new opportunities

## Approach

- Engage industry and community stakeholders
- Identify existing strengths and weaknesses
- Identify future opportunities and threats
- Develop alternative future development scenarios
- Use dynamic financial modeling to evaluate alternatives
- Vet alternatives with stakeholders
- Recommend “best fit” path forward (5-, 10- and 20-year milestones)
- Preserve flexibility to adapt to new opportunities

# Factors and Influences



## Key stakeholders

- Tenants, customers, other Port users
- Environmental community
- Government partners (USCBP, USCG, USACE, etc.)
- Board of County Commissioners
- Other Broward County agencies (BCAD, CVB, etc.)
- Cities (Fort Lauderdale, Hollywood, Dania Beach) within Port
- Public

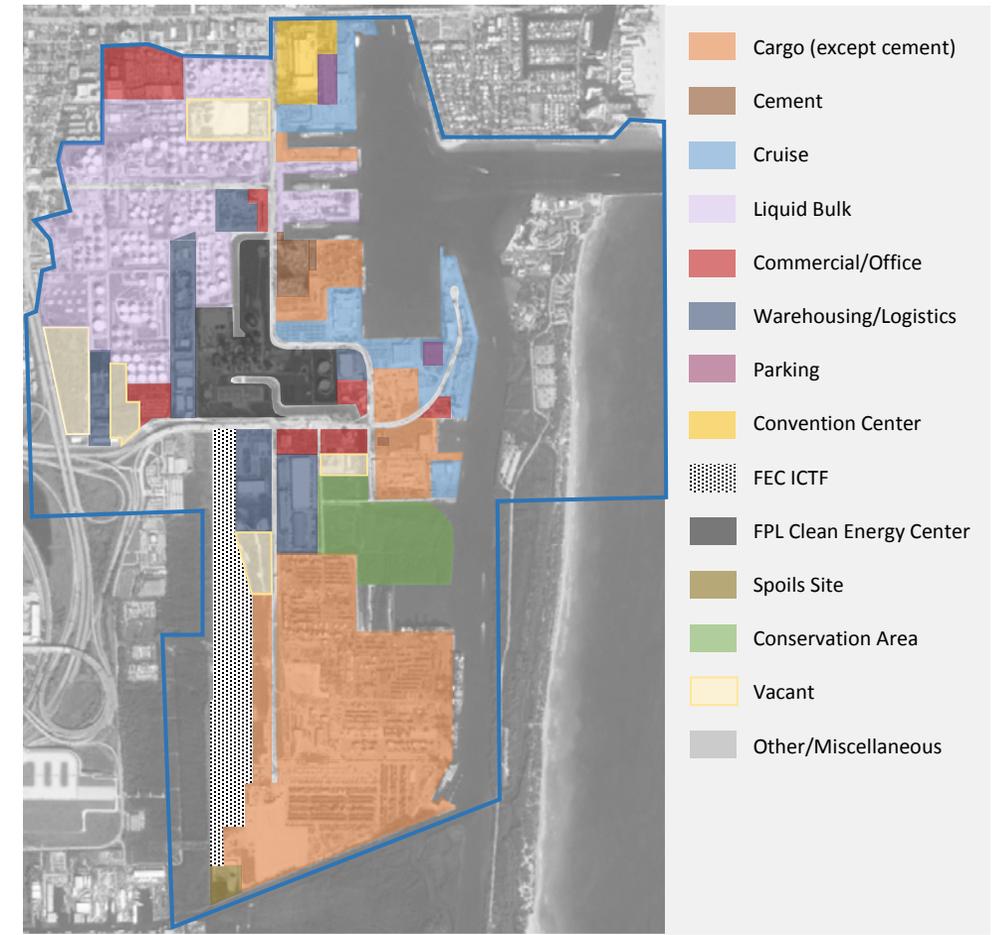
# Work Completed to Date



# Task 1: Existing Conditions

## Context

- Population
- Environment
- Port uses/users
- Capacity (land and berth)
- Relevant non-port developments (FLL, CVB)
- Other State/regional issues and considerations



*Note: Westlake Park seagrass and mangrove restoration not shown (located off map)*

# Task 1: Existing Conditions

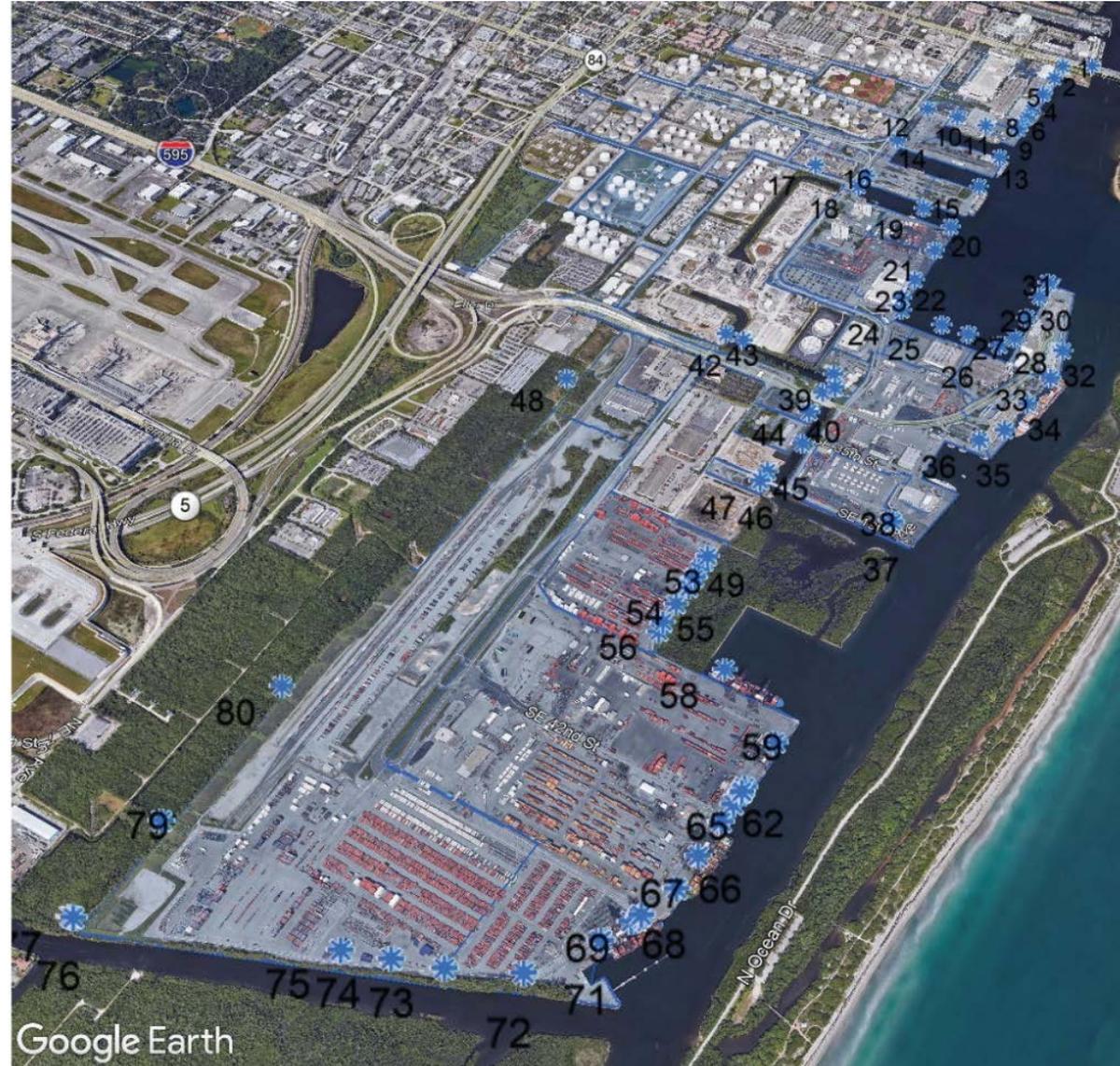
## Infrastructure

- Buildings
- Equipment
- Drainage systems
- 5-year CIP

## Activity

- Traffic
- Parking

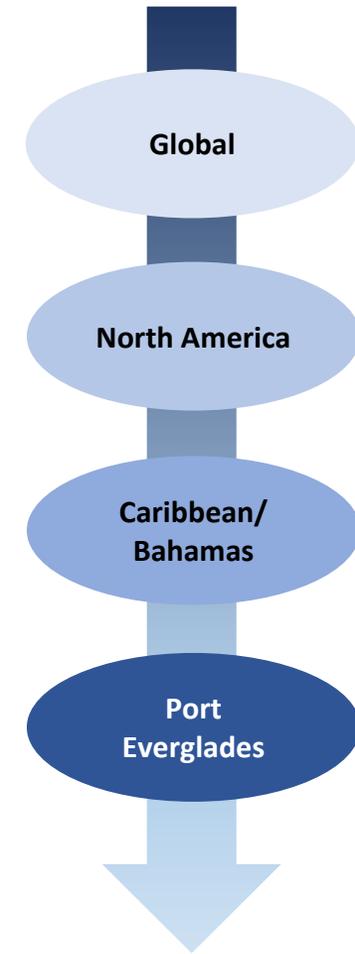
## Port Everglades Outfall Discharge Locations



# Task 2: Market Assessments

## Cruise

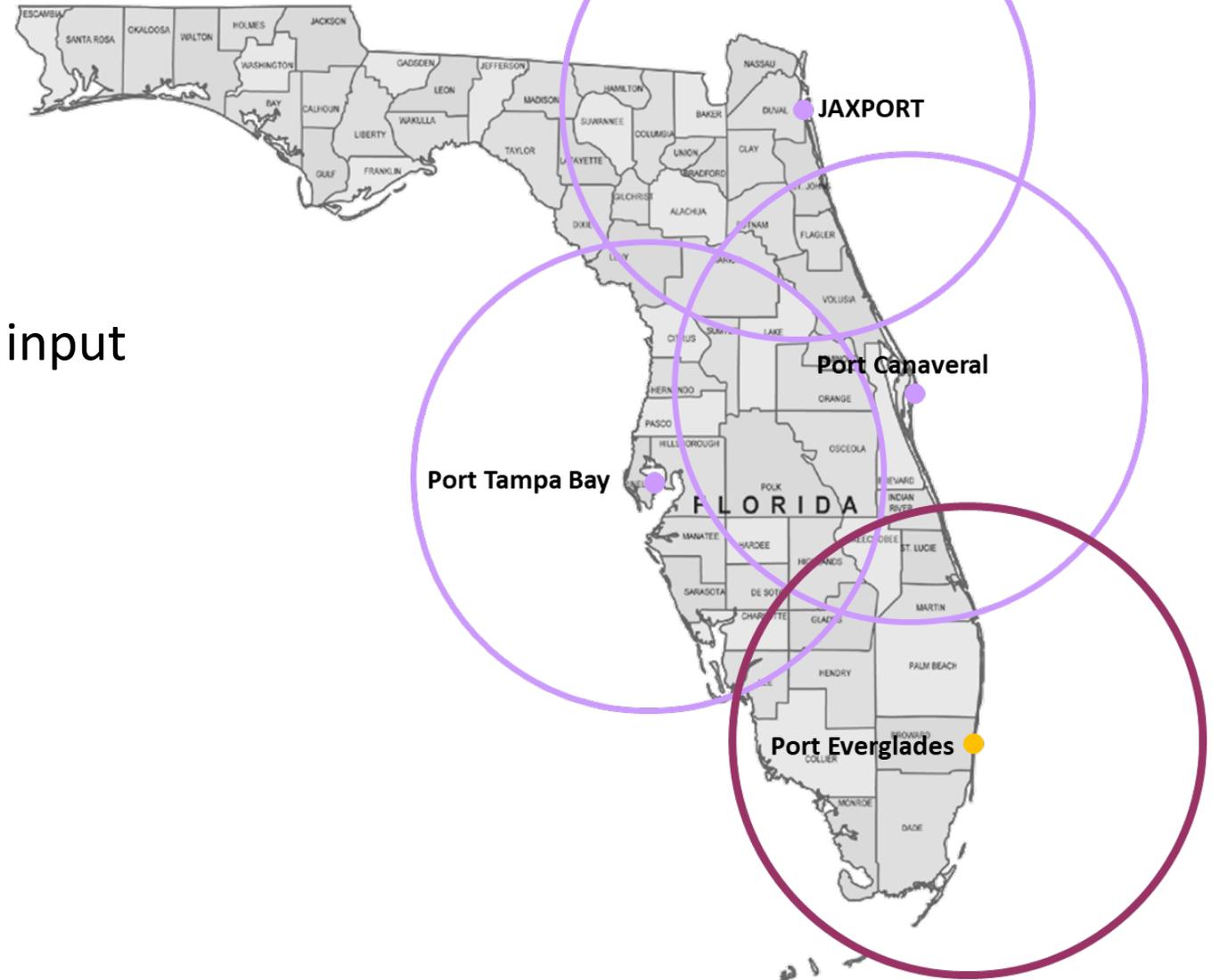
- Global and regional market conditions (current and future)
- Customer profiles and stakeholder input
- Competitor profiles
- Itinerary patterns
- Vessel typologies
- Berth demand
- Port Everglades role
- Future volume forecasts



# Task 2: Market Assessments

## Liquid bulk

- Product mix (current and future)
- Regional demand
- Customer profiles and stakeholder input
- Vessel typologies
- Competitor profiles
- Port Everglades role
- Future volume forecasts



# Task 2: Market Assessments

## Containerized cargo

- Macroeconomic factors
- Supply chain analysis (trade lanes, hinterland, commodities)
- Customer profiles and stakeholder input
- Operational analysis
- Competitor profiles
- Vessel typologies
- Port Everglades role
- Future volume forecasts

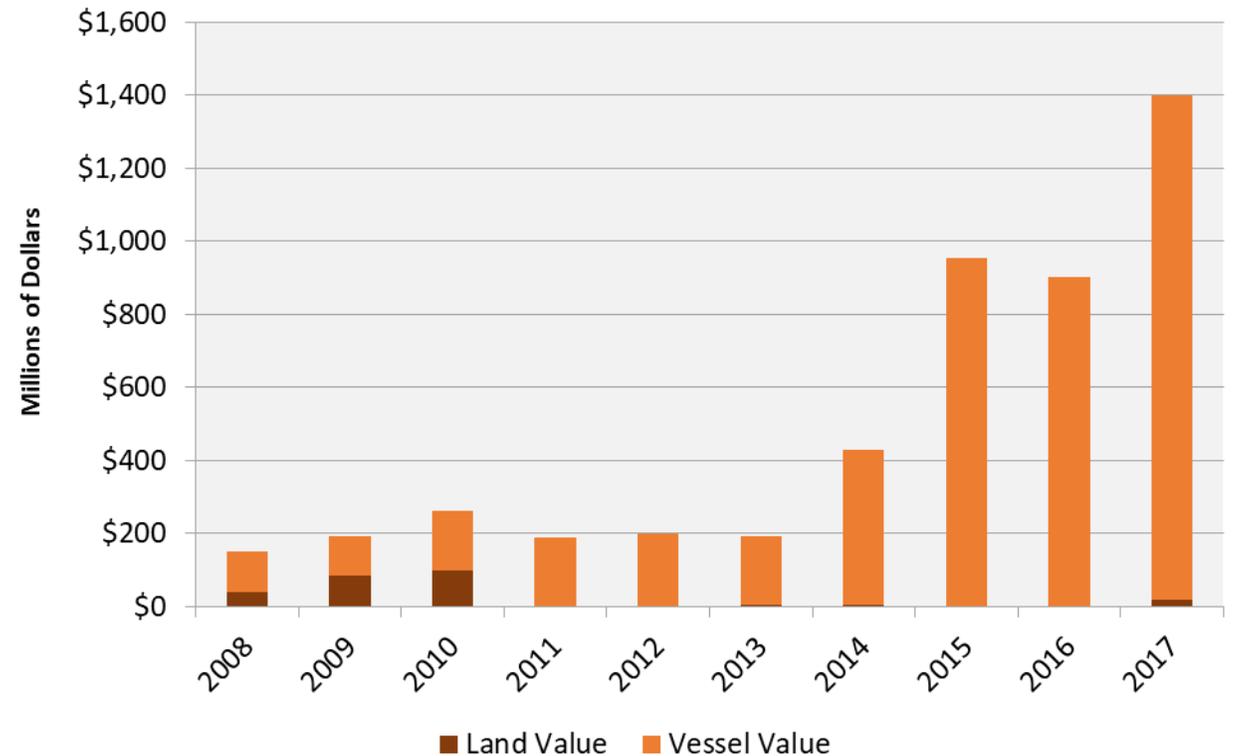


# Task 2: Market Assessments

## Non-containerized cargo

- Product mix (current and future)
- Regional demand
- Customer profiles
- Stakeholder input
- Operational assessment
- Port Everglades role
- Future volume forecasts

## FL Automobile Imports from Mexico



# Environmental Conditions



# Environmental Efforts since 2014 Update

- Planting of 70,000+ mangroves/native plants – net increase of 7.8 acres of Port conservation area
- Creation of new mitigation reef consisting of five boulder piles (50’ wide x 12’ high); currently outplanting corals removed from STNE area
- West Lake Park environmental restoration and enhancement project (permitting phase)
- Supporting removal of offshore tire reef
- Optimizing habitat value of vegetated areas
- Electric reefer plugs (King Ocean, Crowley, FIT)
- Electric RTGs (PET)
- Voluntary air emissions reduction strategy 
- Green Marine certification program
- LEED certification (T4, T25)
- Solar power (T2/T4 garage)
- Turtle-friendly lighting initiative (Portwide)
- Climate change/sea level rise action plan (County)
- Artificial tire reef removal
- Implementation of Physical Oceanographic Real-Time System (PORTS®) in partnership with NOAA
- Other wildlife studies and management (analysis of behaviors and risks)

Sector	Strategy Description
Ocean Going Vessels	Reduce hoteling time by 5% or 10%
	Alternative control technology at berths (e.g., capture and treat)
	Use of lower-sulfur and alternative (e.g., LNG) fuels
	Application of shore power to reduce engine operations while dockside
Harbor Craft	Engine and vessel replacement
Cargo Handling Equipment	Engine and equipment electrification
	Diesel particulate filters and oxidation catalysts
On-Road Vehicles	Truck replacement to Model Year 2010+
	Battery electric vehicles (BEVs)
	Reduction of truck idling times
Rail	Increase modal shift of cargo from truck to rail

## Considerations

- Wildlife and habitat protection and management
- Contamination assessment and remediation
- Water quality
- Air quality
- Energy efficiency
- Cultural resource protection
- Climate change resiliency initiatives
- Other environmental initiatives

# Environmental Conditions

## Habitat, species and wildlife

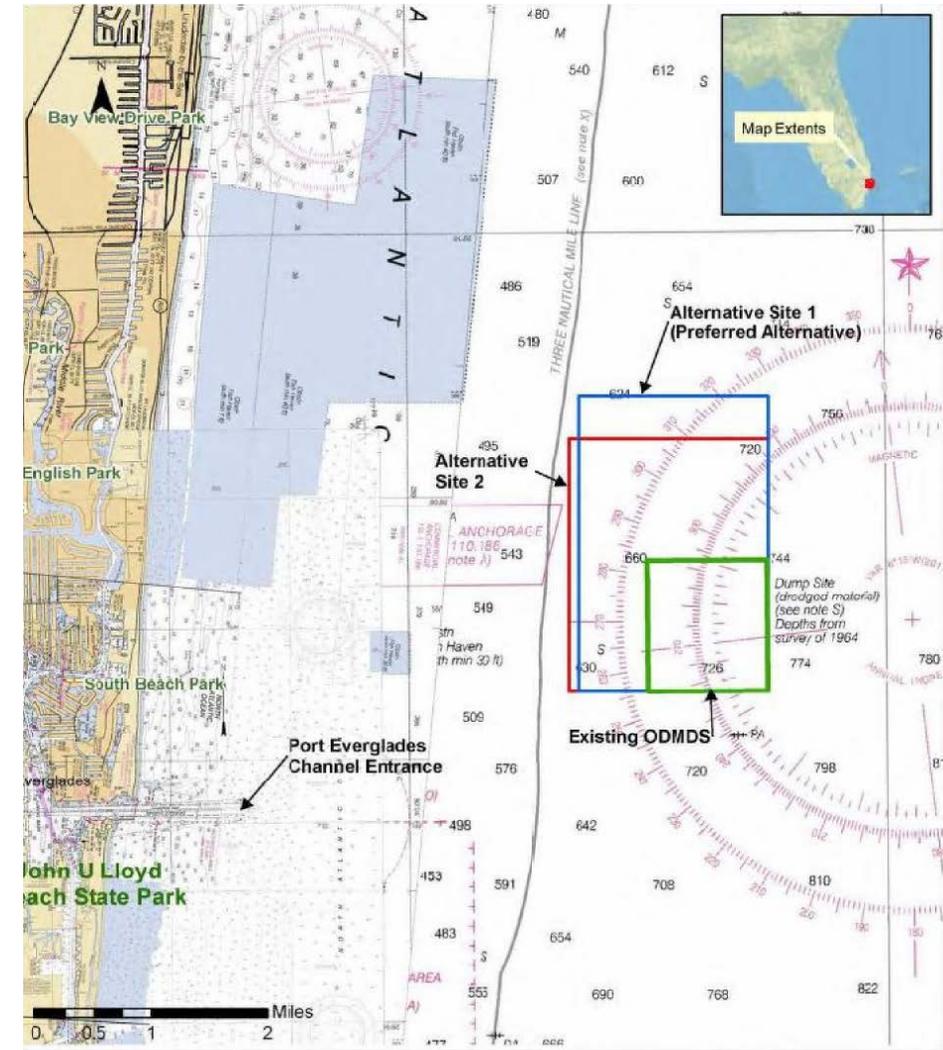
- Mangroves
- Seagrass
- Coral reefs/hardbottom
- Artificial reefs
- Manatees
- Sea turtles
- Shorebirds
- Other species
- Beach and dune systems



# Environmental Conditions

## Environmental resource mitigation projects

- Southport turning notch extension project (STNE)
- U.S. Army Corps of Engineers (USACE) deepening and widening project
- Dredged material disposal areas
- Critical habitat and mitigation for elkhorn and staghorn coral
- Seagrass assessment and mapping



US Army Corps of Engineers  
Jacksonville District

### PROJECT VICINITY MAP

Port Everglades ODMDS Expansion Areas

NOAA Raster Nautical Chart - Seamless Mosaic - ESRI Server

Figure: 1

Date: November 2012

Scale: 1:60,000

Source: NOAA/ESRI/GEC

# Environmental Conditions

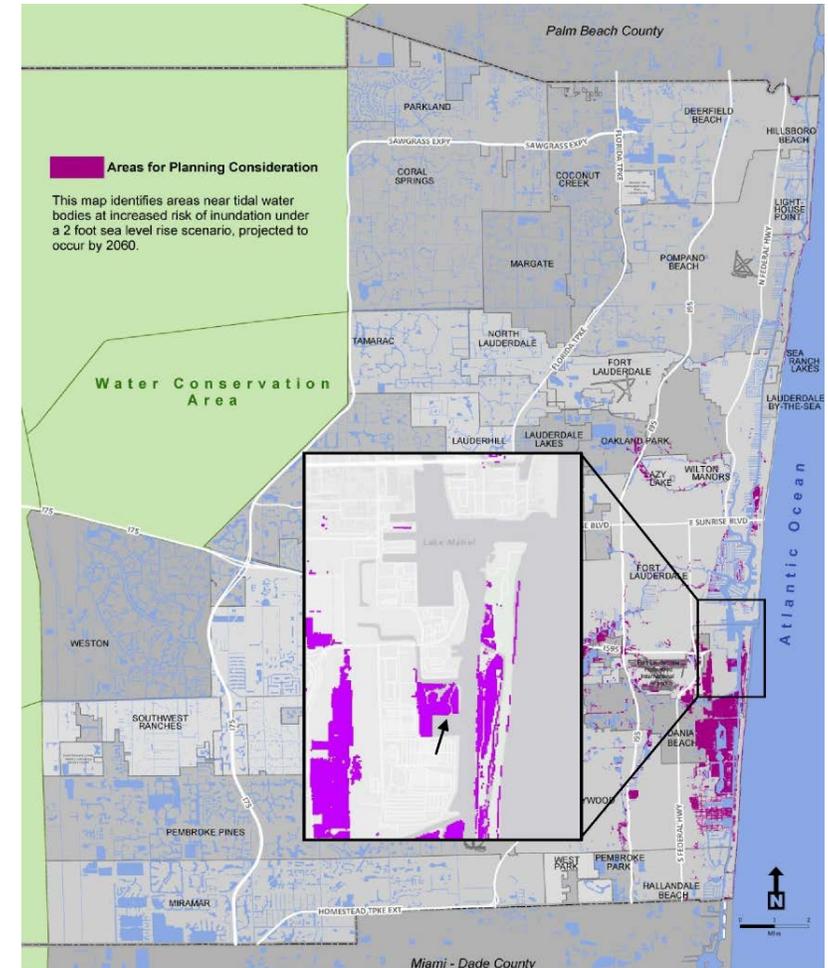
## Environmental initiatives

- Water quality/stormwater management
- Air quality
  - Voluntary air emissions baseline study and reduction strategies
  - Electric reefer plugs (King Ocean, Crowley, FIT)
  - Electric RTGs (PET)
- Green Marine certification program
- Energy efficiency
  - LEED certification (T4, T25)
  - Solar power (T2/T4 garage)
  - LED lighting (Portwide)

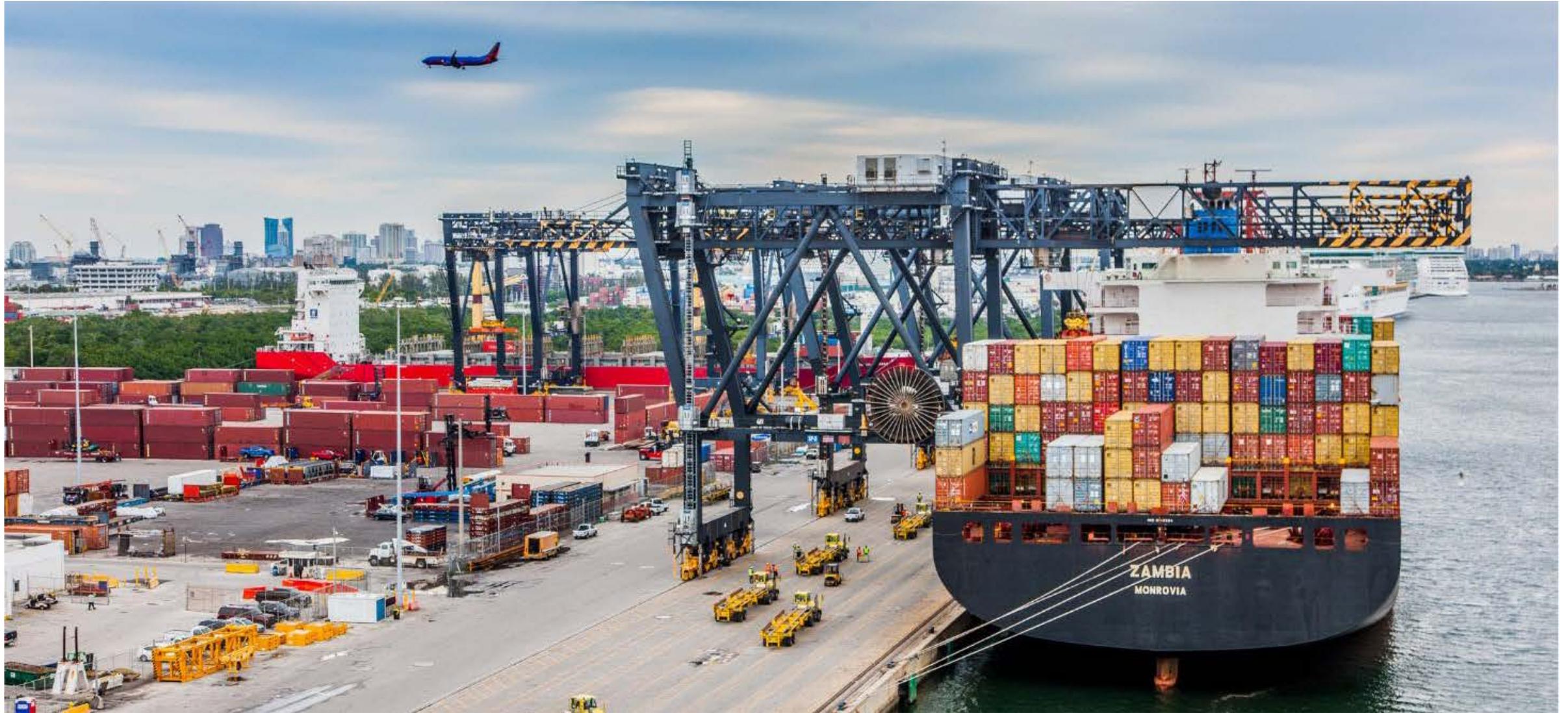


## Climate change initiatives

- Adoption of an adaptation management plan
- Development of habitat buffer zones
- Encouragement of green infrastructure
- Increased planting of native vegetation
- Development of alternative water supplies
- Reduction of carbon footprint
- Increase of rooftop solar projects
- Education of staff/stakeholders on climate change
- Encouragement of climate resilient construction



# Your Input



# Your Input

What issues/challenges do you see that we have not identified?

What opportunities do you see?

What other comments, ideas or suggestions do you have?



# Thank You

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