



# Everglades Restoration - The Big Picture

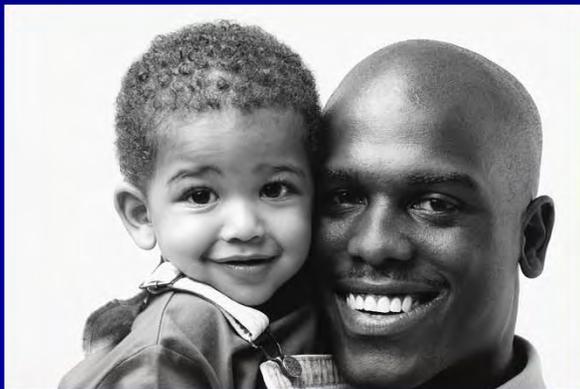
*"There are no other Everglades in the world. They are, they have always been, one of the unique regions of the Earth, remote, never wholly known.... It is a river of grass."*

- Marjory Stoneman Douglas, *The Everglades: River of Grass*, 1947

# The Everglades supports an ecosystem unique in the world



And a vibrant urban and agricultural region that is central to Florida's overall economy



Once a vast watery wilderness that spanned nearly 18,000 square miles, the Everglades presented daunting challenges to large scale development.



Today, the natural flow of water is carefully controlled



As a result, the ecosystem and historic  
Everglades flow way have been  
significantly altered



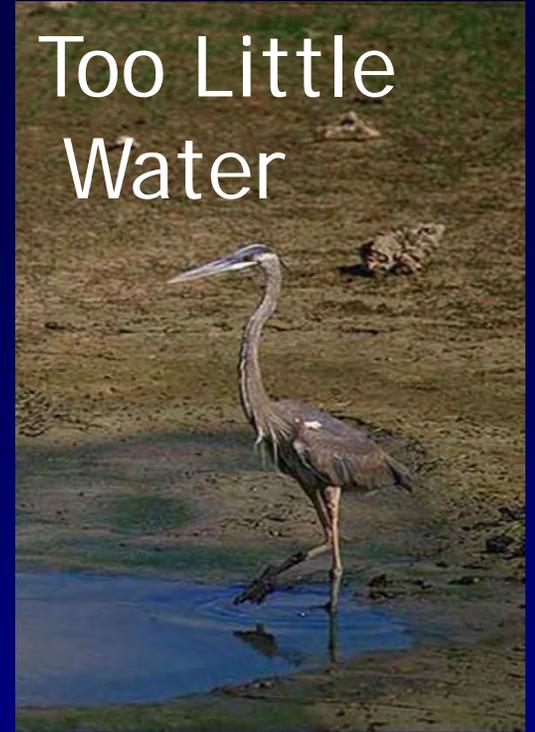
# Intended Consequences...





Too Much Water

# Unintended Consequences



Too Little  
Water



Poor Water Quality



Wrong Timing  
& Distribution

# A Myriad of Problems in the River of Grass

Too Dry

Too Wet

No Flow

Too Dry

WCA 3

Source: McVoy



# Water quality degraded dramatically



# Invasive Species

- 50 Plants (Category I Invasive)
- 34 Invertebrates
- 12 Mammals
- 4 Amphibians
- 38 Reptiles
- 11 Birds
- 20 Fishes



# South Florida Ecosystem Restoration Task Force Strategic Goals

Goal 1 Get the Water Right

Goal 2 Restore, Preserve, and Protect Natural Habitats and  
Species

Goal 3 Foster Compatibility of the Built and Natural Systems

# Partners in Restoration



# Partnership and Collaboration Produce Results

Most recent examples:

- Path Forward on Water Quality
- Central Everglades Planning Project
- 1,278 acre American Prime Acquisition
- C-44 Groundbreaking

# Progress towards TF Strategic Goals

- WRDA 2000 Authorizes CERP
- 4 CERP projects under construction
- 4 CERP projects ready for authorization
- Water reserved for the environment
- 60% of lands acquired for CERP
- 28,000 acres of Wetlands already restored
- 100,000 acres of Wetland Restoration Underway
- 64,000 acres of Stormwater Treatment Areas constructed
- Monitoring and Assessment Program adopted
- Independent scientific review ongoing
- Fast track planning effort underway

# Progress towards TF Strategic Goals

- Restored Migratory Flyway in Kissimmee Valley
- 9 species of Waterfowl returned
- 150,000 acres Everglades Headwaters National Wildlife Refuge and Conservation Area established
- Indicator Species Monitoring and System Status Report in place
- 1,278-acre American Prime property along the Caloosahatchee River in Glades County

# Progress towards TF Strategic Goals

- Over \$210 million invested in protecting and restoring 50,000 acres of working lands through USDA's Wetlands Reserve Program in 2010-2011
- Protecting 26,000 acres in Fisheating Creek Wetland Reserve Program Project
- STAs provide numerous new recreational opportunities including hunting, birding, boating, canoeing, kayaking, bicycling, hiking and fishing
- 131,000 acre feet of Dispersed Storage acquired
- Public/Private partnership on development of seepage management technology
- Construction funding provides thousands of Jobs Annually

# Getting The Water Right

Quantity

Quality

Q

Q

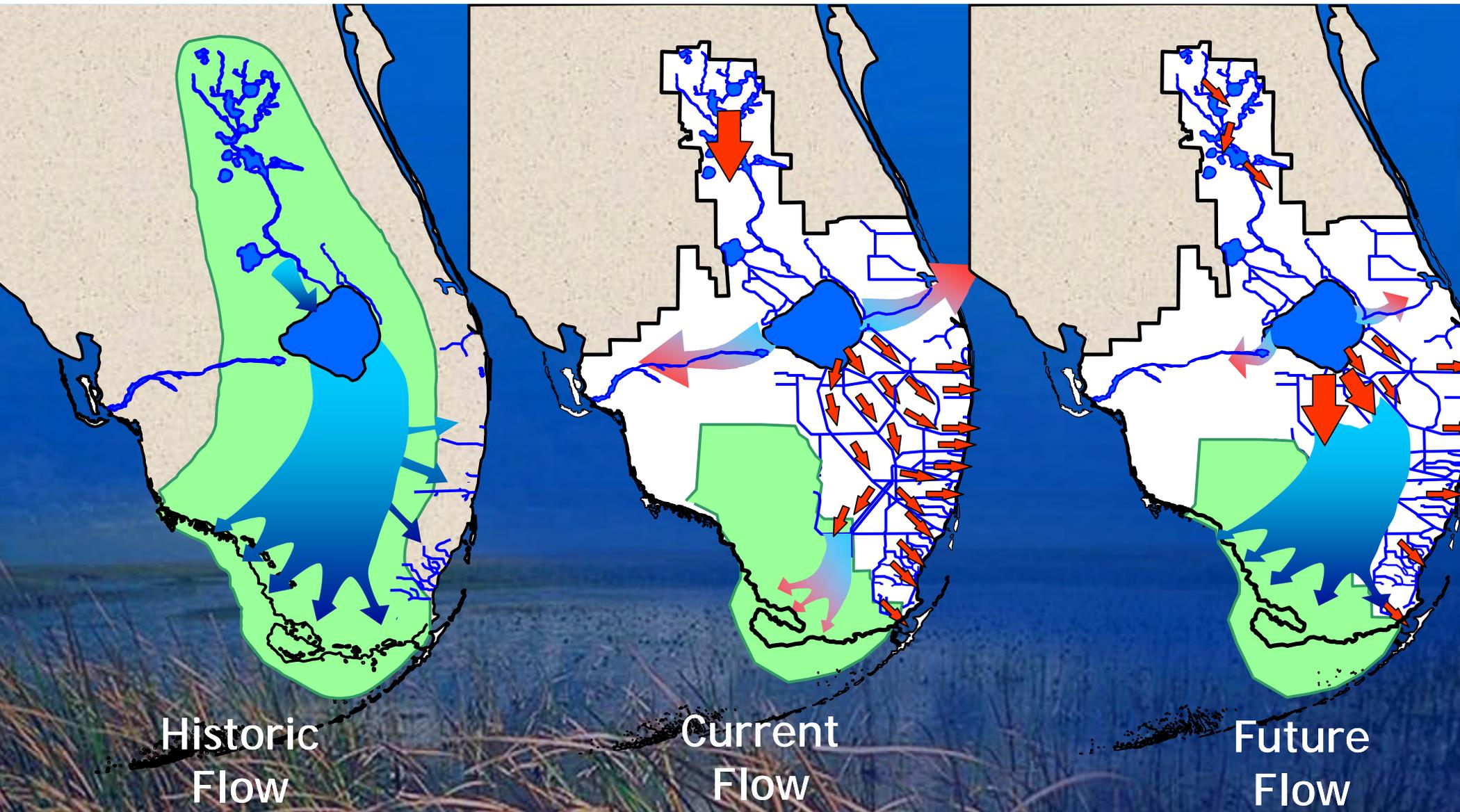
T

D

Timing

Distribution





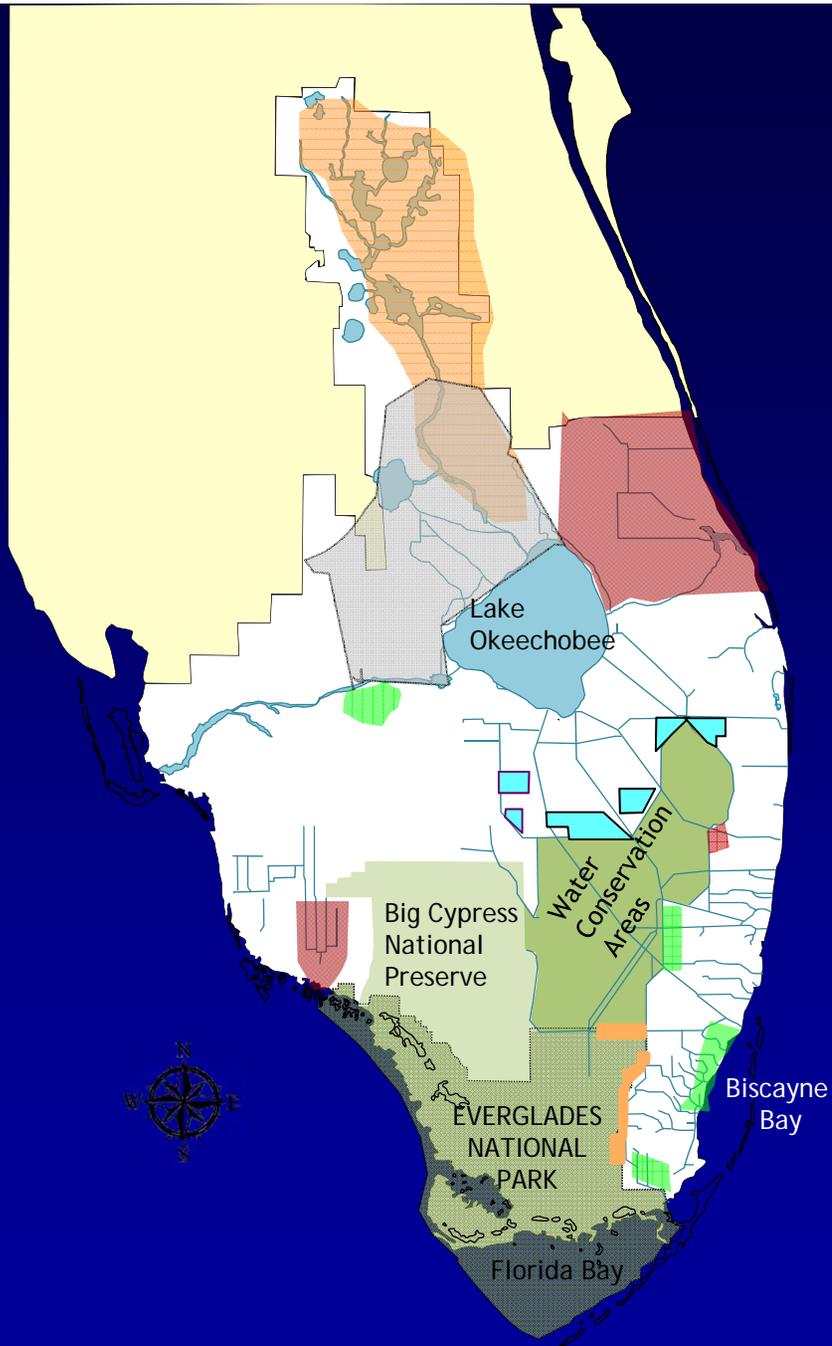
Historic  
Flow

Current  
Flow

Future  
Flow

Hydrologic Goal - Get the Water Right

# Major Restoration Initiatives



- Foundation Projects
  - Kissimmee River
  - C-111 South Dade
  - C-51/STA-1E
  - Modified Water Deliveries
- 1<sup>st</sup> Generation CERP
  - Site 1 Impoundment
  - IRL-South
  - Picayune Strand
- 2<sup>nd</sup> Generation CERP
  - C-43 Reservoir
  - Broward County WPA
  - C-111 Spreader Canal
  - Biscayne Bay Coastal Wetlands
- Land Conservation and Dispersed Storage (WRP, FRESP)
- Stormwater Treatment Areas

# The Standard for Success: Kissimmee River Restoration



Before  
Channelization



Channelized for  
Flood Control



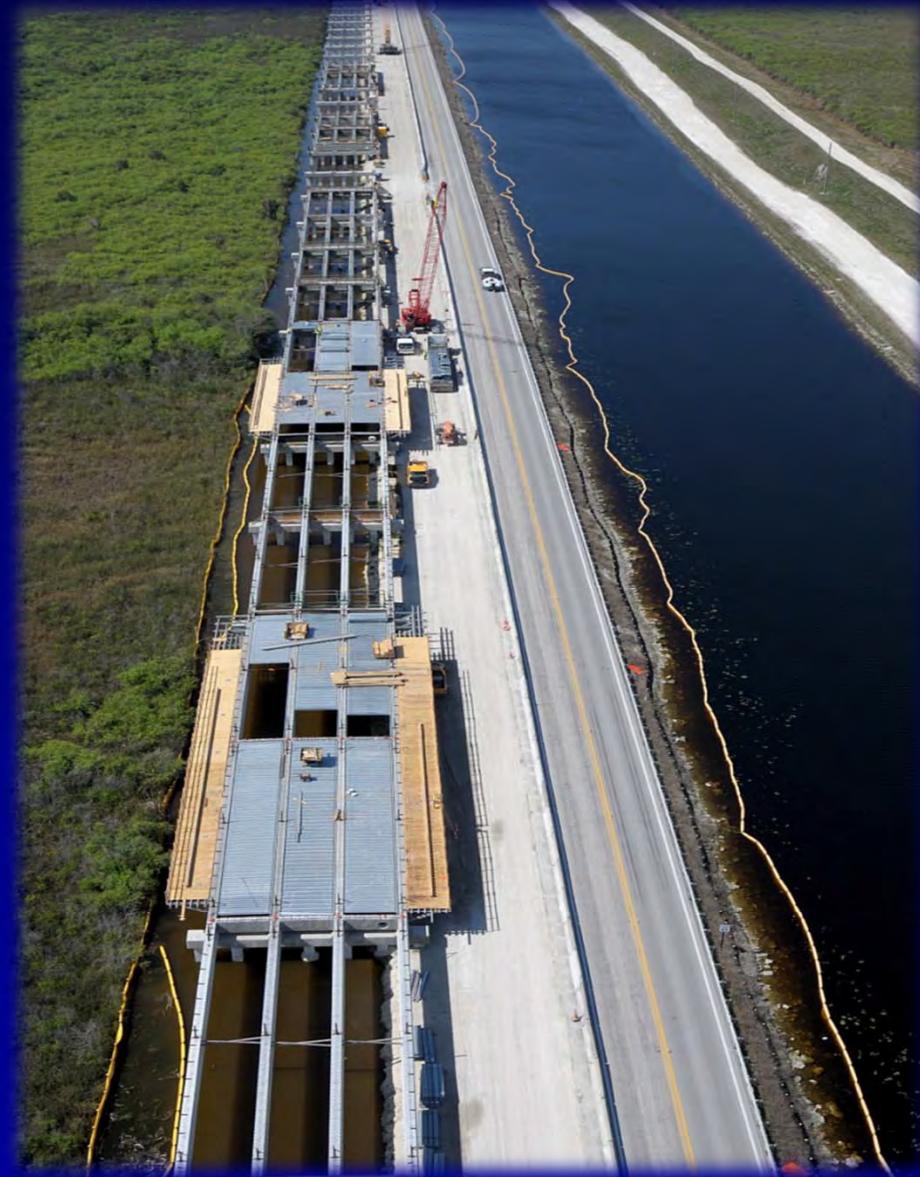
Backfilled for  
Restoration



Restored  
River



# Tamiami Trail: Removing the dam





# Picayune Strand



# C-111 Spreader Canal - Aerojet Canal



# Biscayne Bay Coastal Wetlands



# Site 1 Reservoir



# C-44 Indian River Lagoon



# Lakeside Ranch S-650 Pump Station

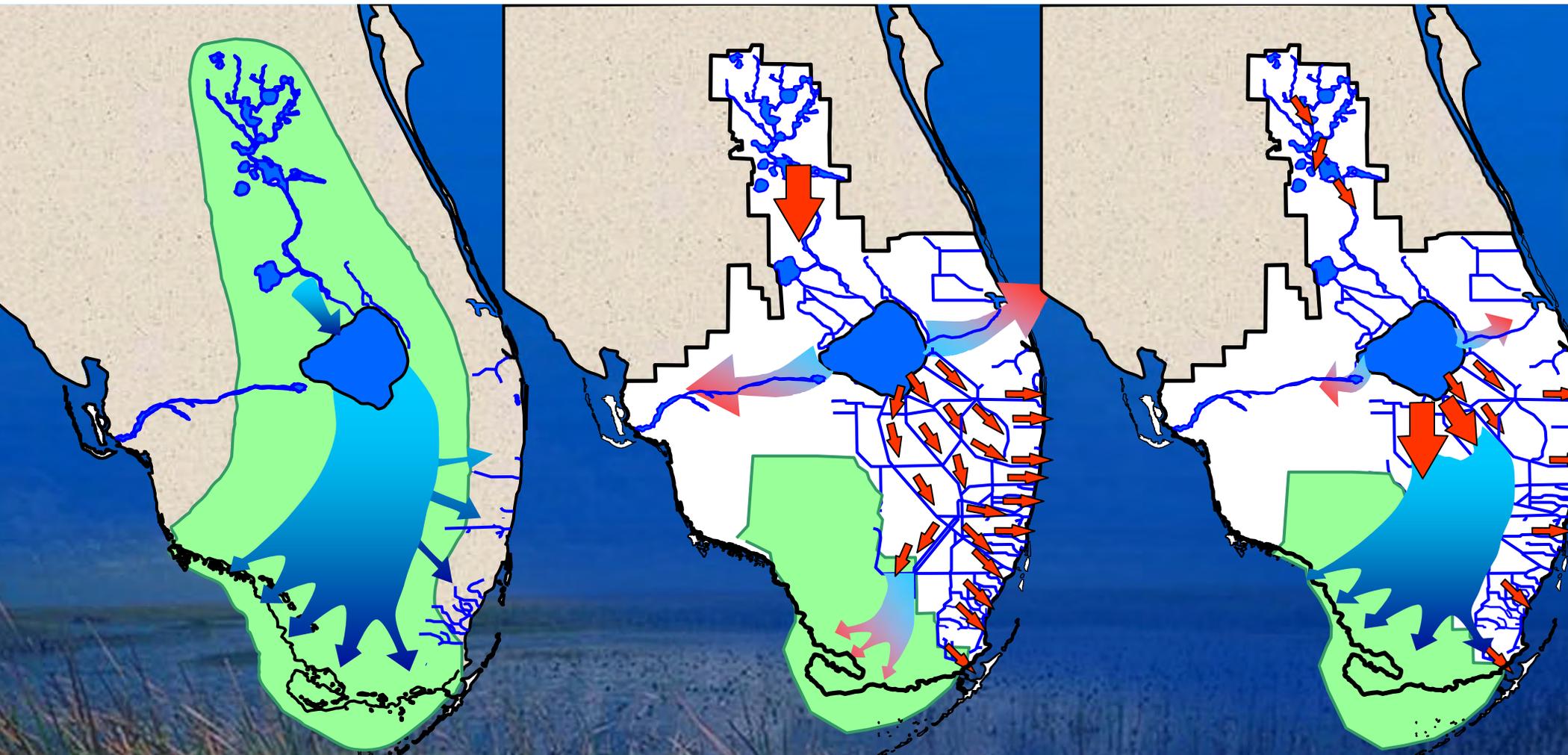




Acme Basin B

# Lake Trafford Restoration





Historic  
Flow

Current  
Flow

Future  
Flow

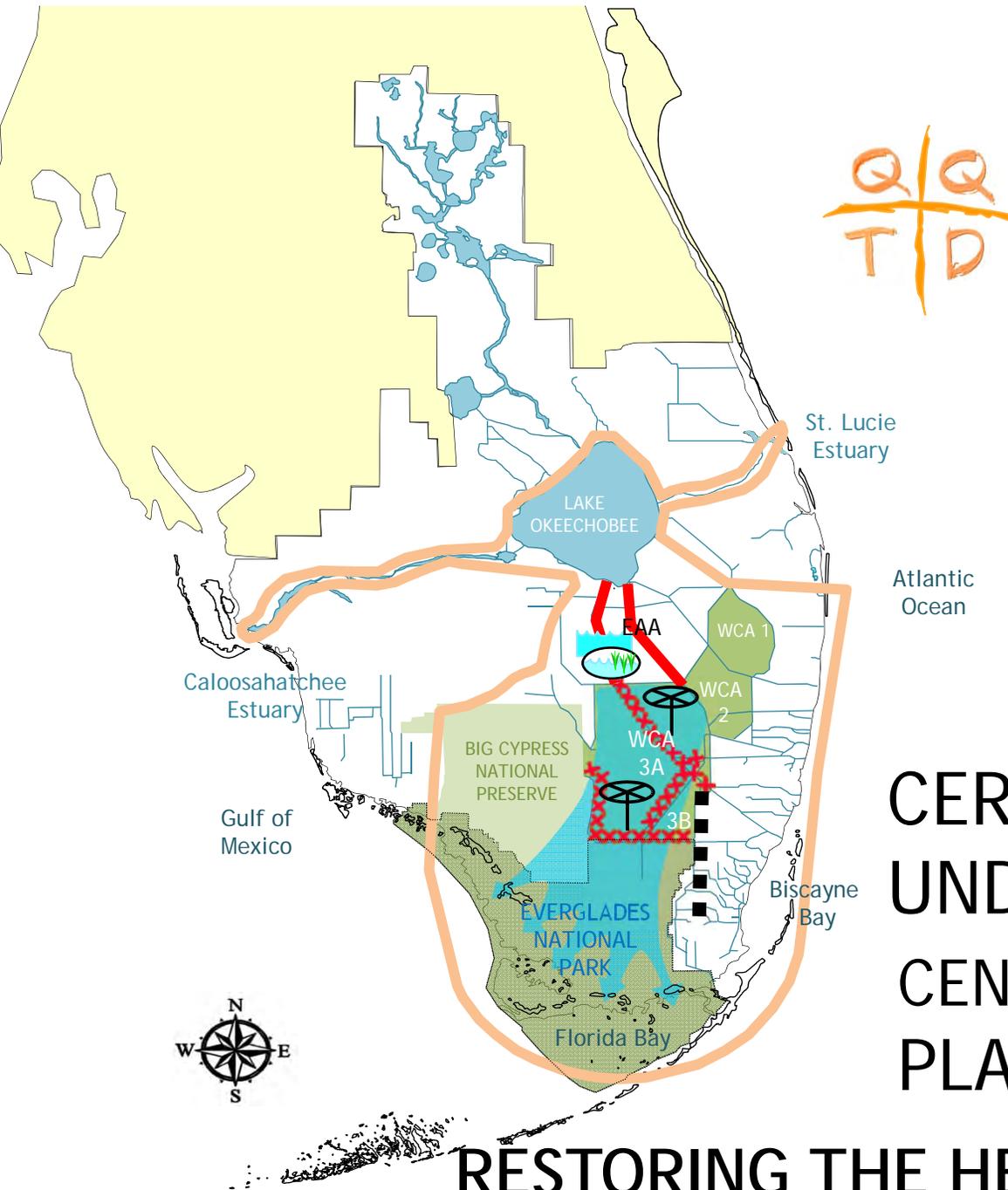
Remember our Restoration Goal

CENTRAL  
EVERGLADES  
PLANNING  
PROJECT



A Bold New  
Approach for  
Restoration  
Projects

Components are  
grouped in  
complimentary  
"bite size" pieces  
to achieve  
incremental  
restoration on an  
expedited timeline



Q/Q  
T/D

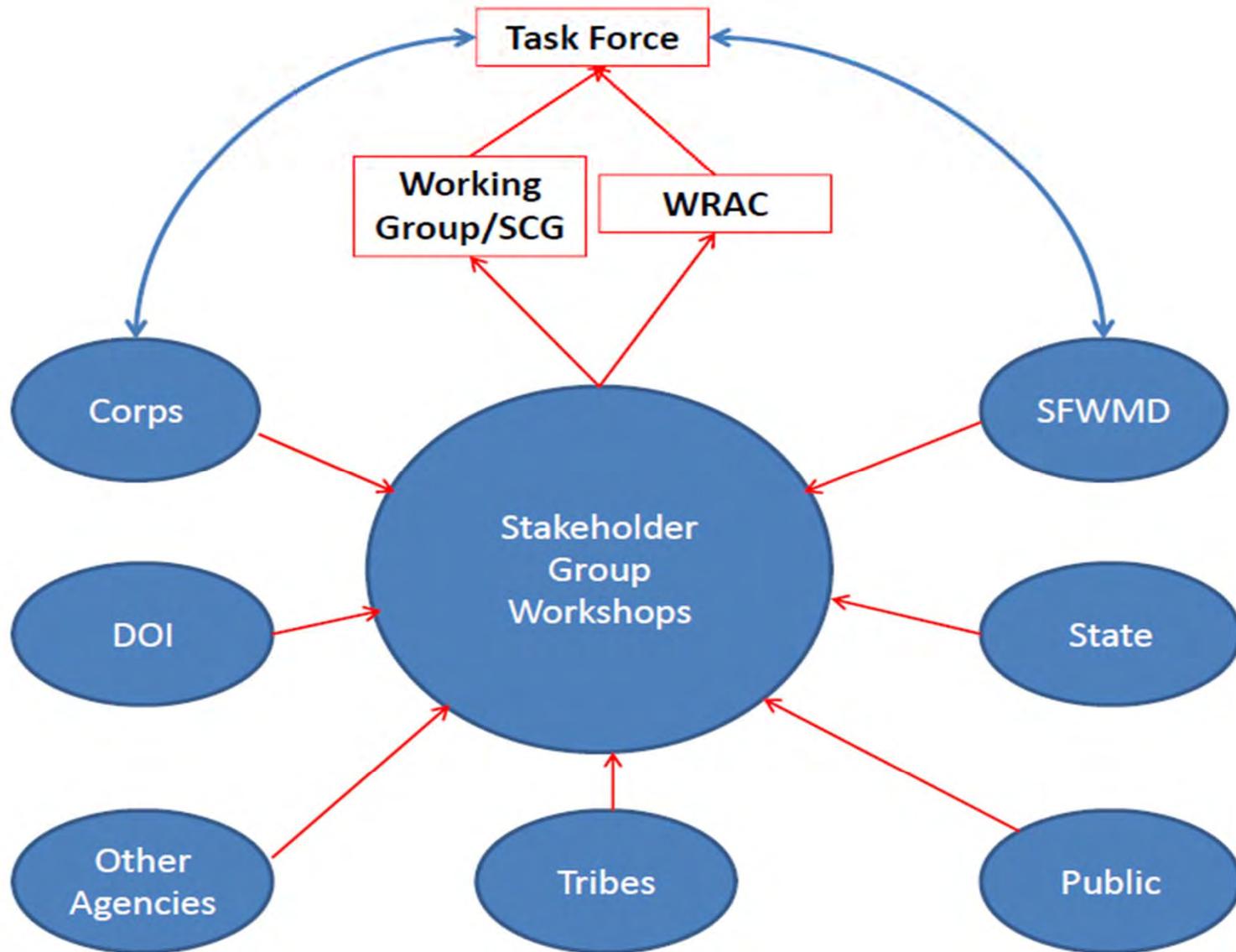
	Central Everglades Planning Project Study Area
	Storage, Treatment, and Conveyance in the EAA
	Decompartamentalization and Sheetflow Enhancement
	Seepage Management
	Operational Changes

# CERP COMPONENTS UNDER CONSIDERATION

## CENTRAL EVERGLADES PLANNING PROJECT

### RESTORING THE HEART OF THE EVERGLADES

# Proactive Stakeholder Engagement Process



THANK YOU

