

CENTRAL EVERGLADES PLANNING PROJECT



Water Resources Advisory Commission Issues Workshop

PRESENTED BY

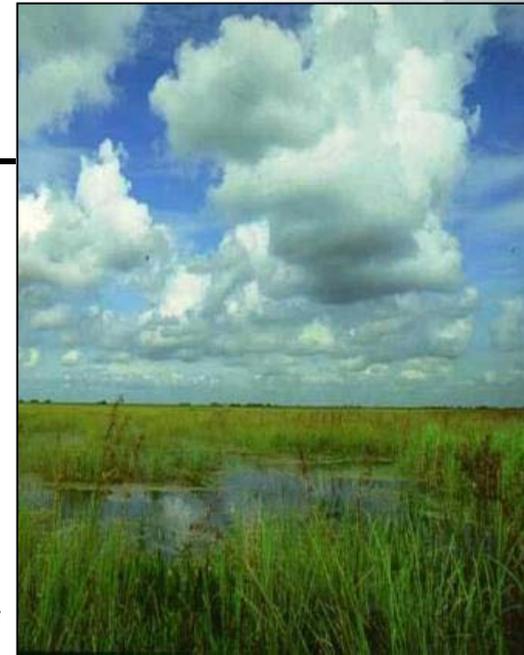
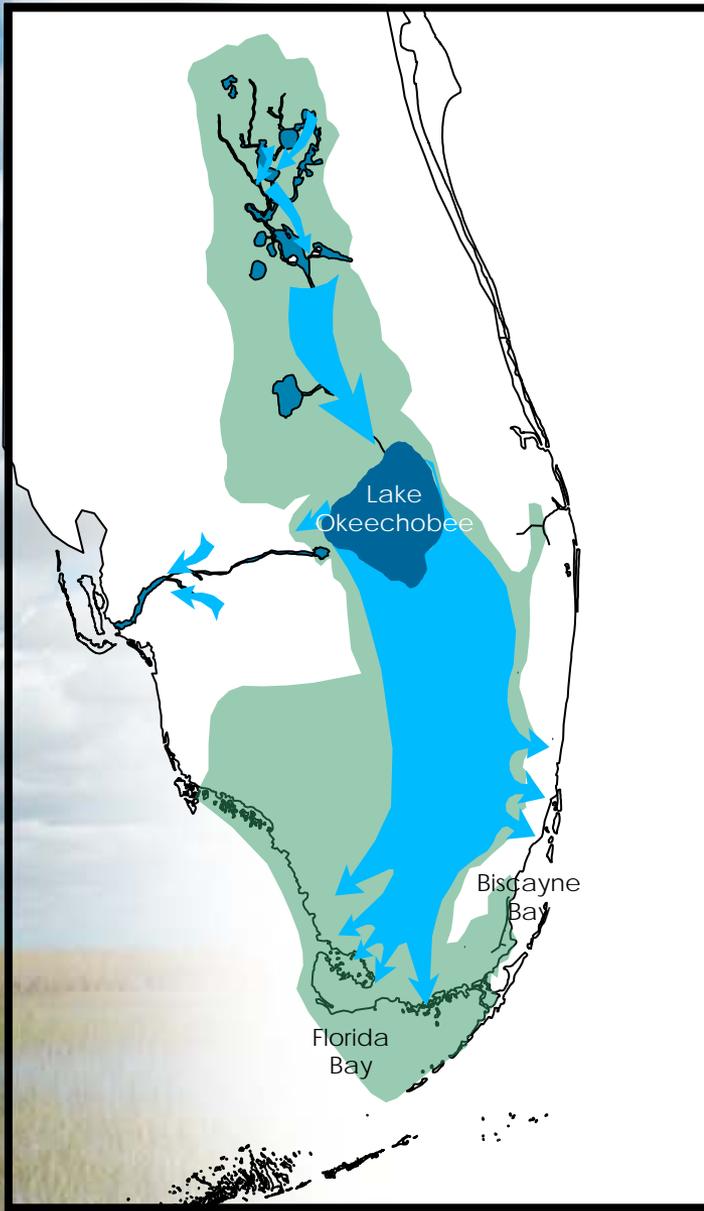
Matt Morrison,
Everglades Policy and
Coordination

South Florida Water
Management District

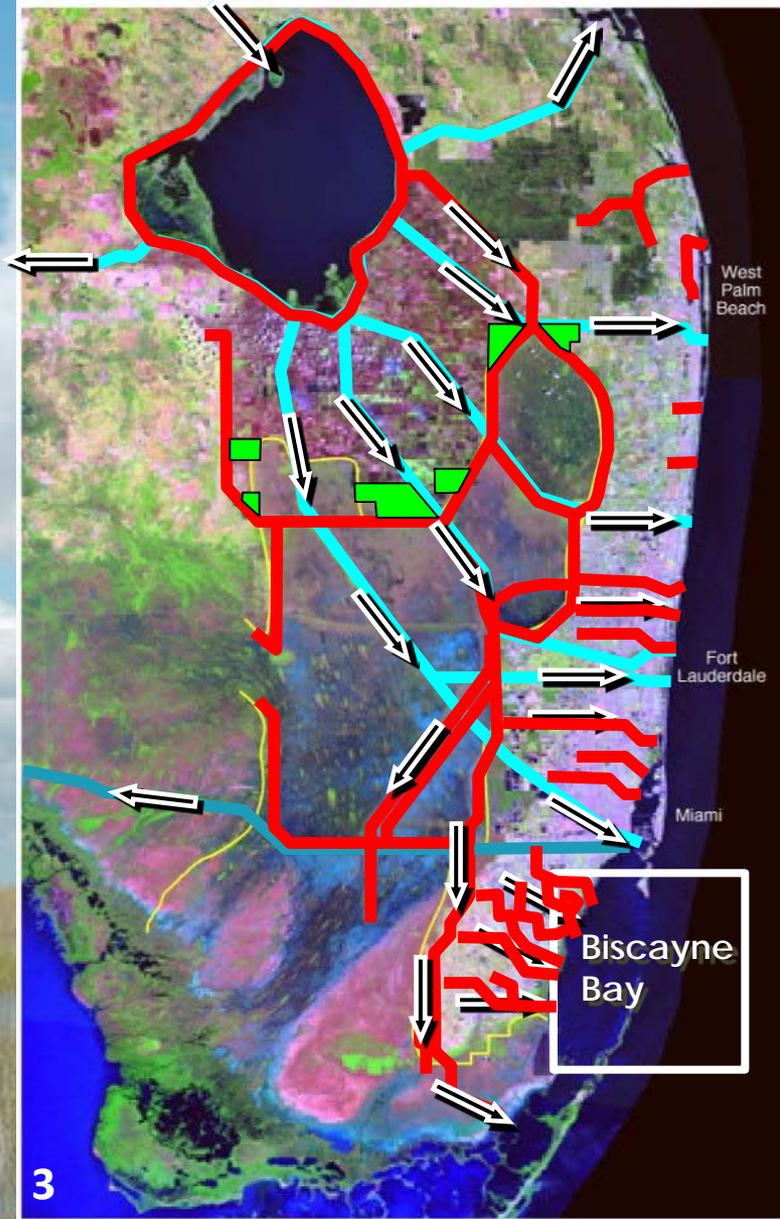
February 3, 2012

Historic Everglades Overview

- Continuous water flow from central Florida through Lake Okeechobee and south into Florida Bay
- Natural system composed of over 9 million acres of lakes, rivers and wetlands
- Unique and diverse mosaic of habitat



Drainage of the System and Water Flow Alterations



Pre-Central & South Florida Projects

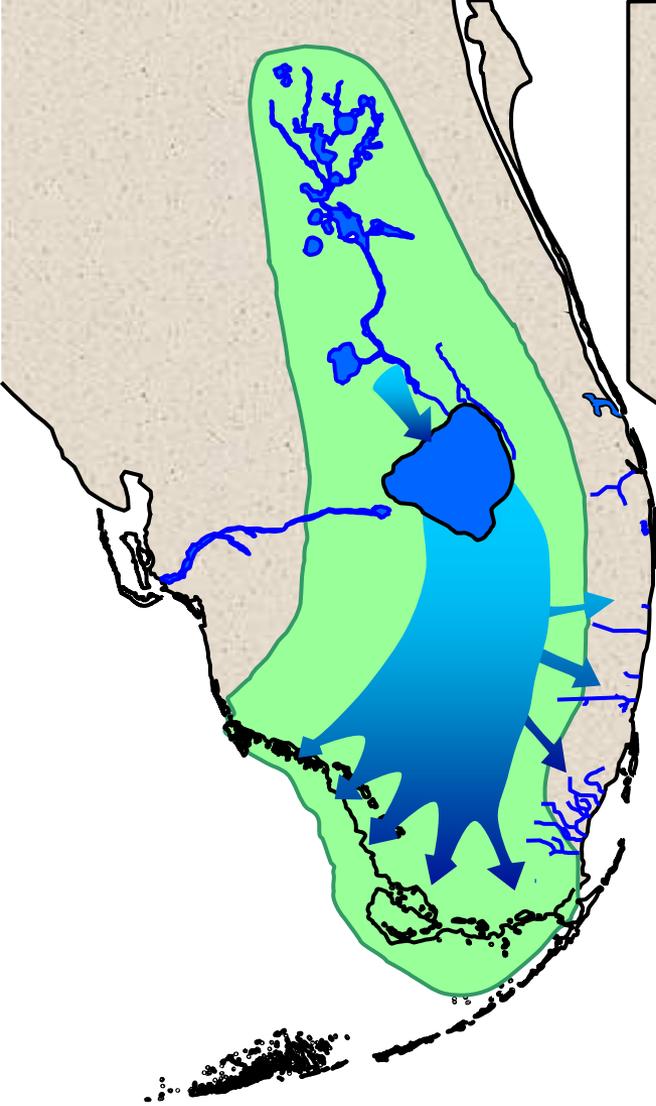
- | Caloosahatchee/Kissimmee Rivers 1881-93
- | East Coast Canals/St. Lucie Canal 1905-24
- | Tamiami Trail 1915-28
- | Lake Okeechobee HH Dike 1932-38

Central & Southern Florida Project

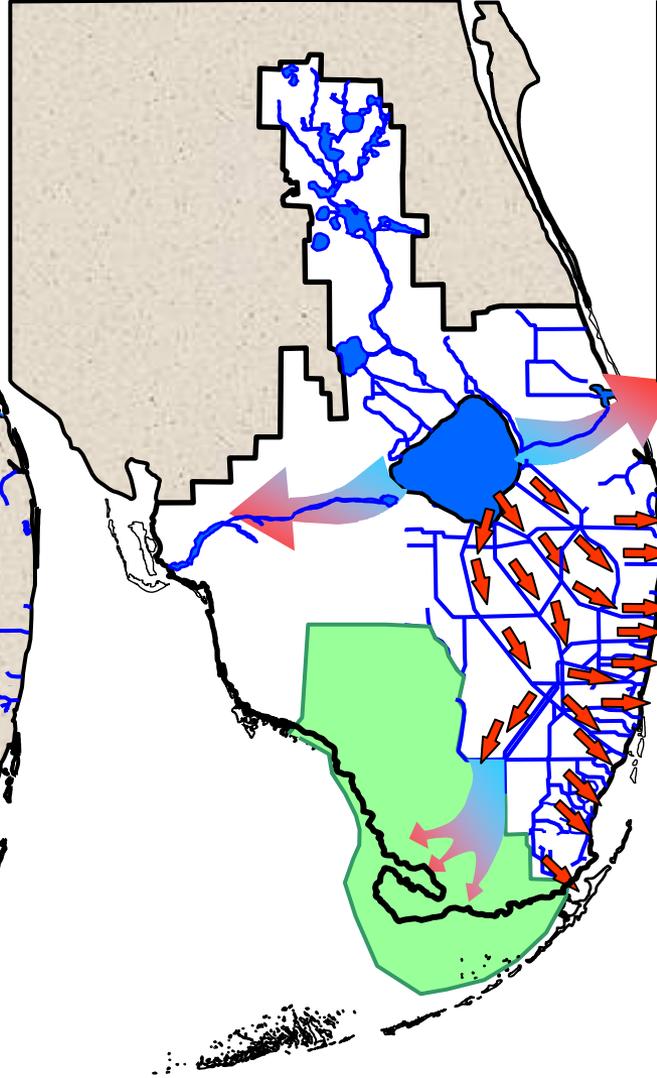
- | Eastern Protective Levee System 1952-54
- | Everglades Agricultural Area 1954-59
- | Water Conservation Area Levees 1960-63
- | Lower East Coast Canals 1954-65
- | Lake Okeechobee Levees 1960-64
- | Kissimmee River Channelization 1962-71
- | South Dade System 1965-83

Everglades Construction Project

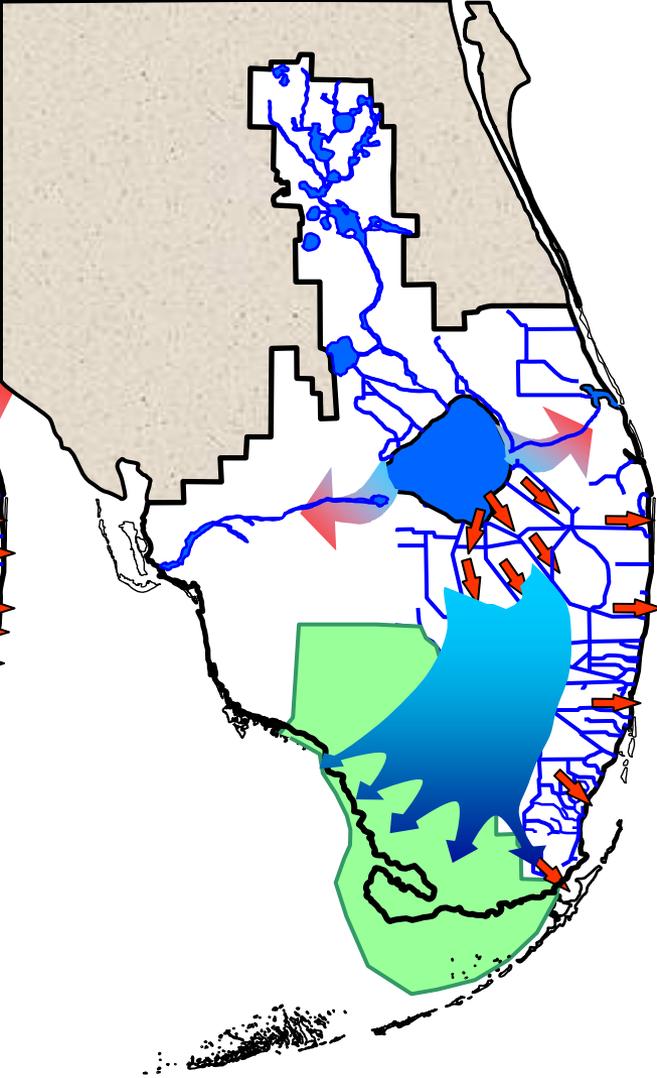
- | Stormwater Treatment Areas 1994-2003



Historic
Flow

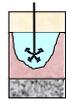
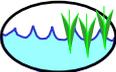


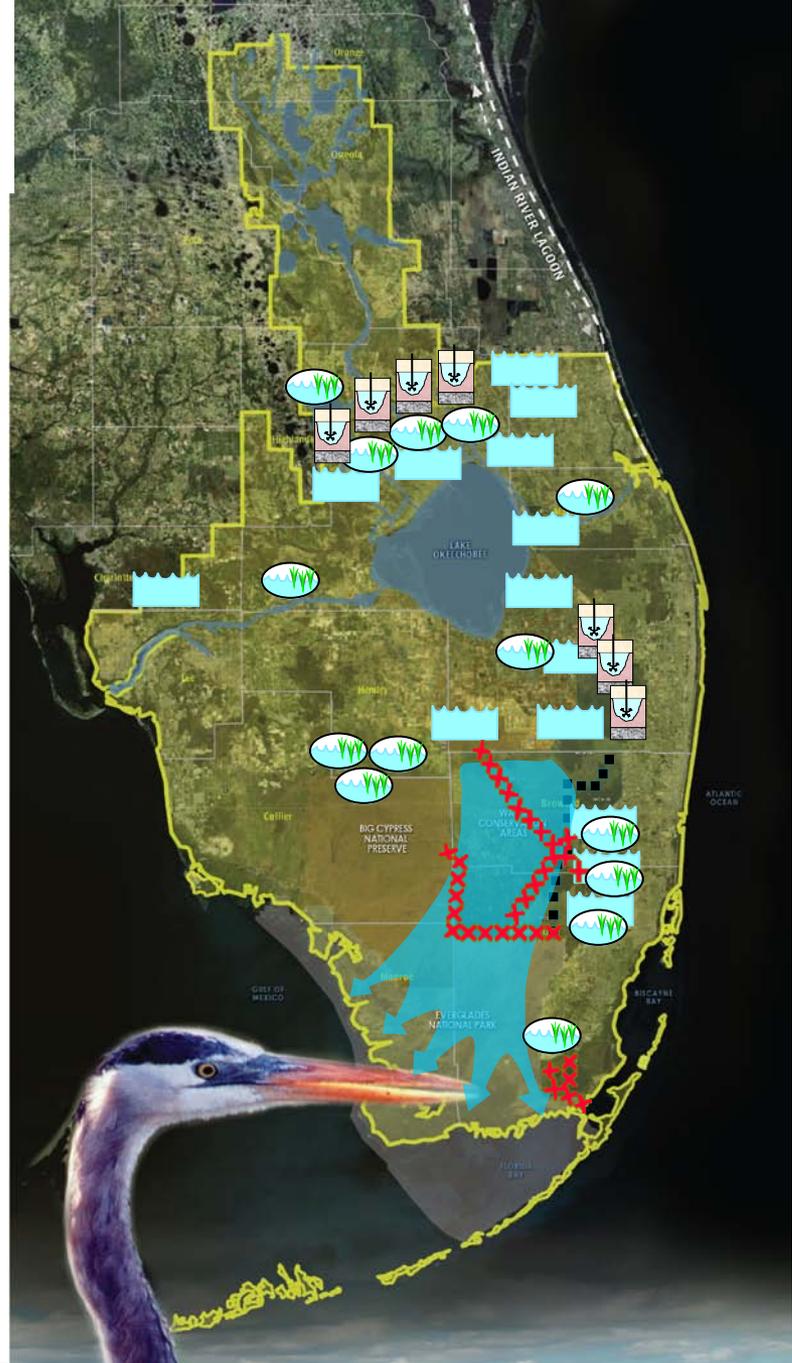
Current
Flow



Future
Flow

Comprehensive Everglades Restoration Plan (CERP)

- 68 Components
- Storage  Surface  ASR
- STAs for water quality 
- Seepage management ■■■■
- Removing barriers to flow 
- Revised operations
- 30+ Year Implementation



CERP IMPLEMENTATION

■ Foundation Projects

- Kissimmee River
- C-111 South Dade
- C-51/STA-1E
- Modified Water Deliveries

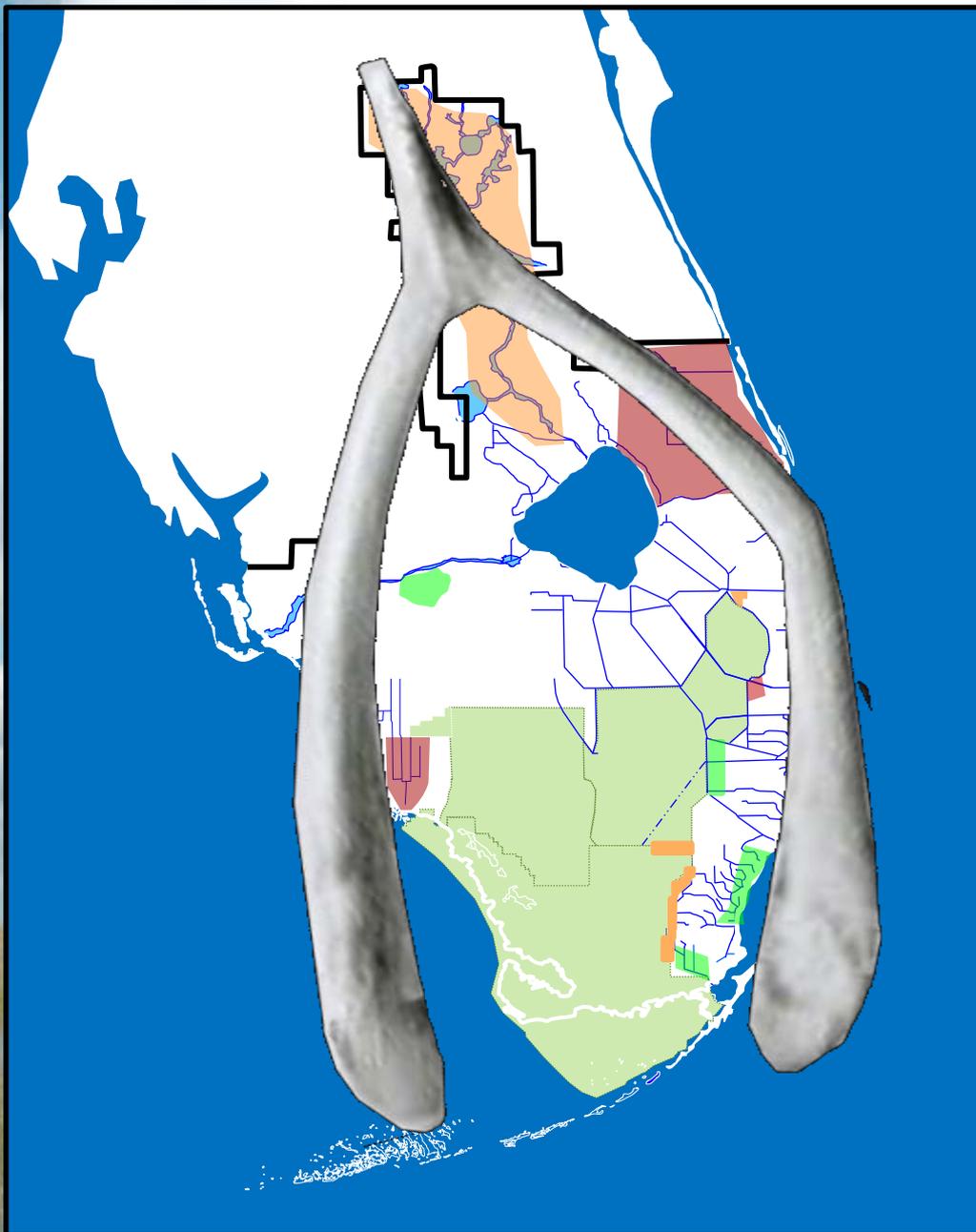
■ 1st Generation CERP

- Site 1 Impoundment
- IRL-South
- Picayune Strand

■ 2nd Generation CERP

- C-43 Reservoir
- Broward County WPA
- C-111 Spreader Canal
- Biscayne Bay Coastal Wetlands





What's Next?

- “Central Everglades” in context of “center” of the wishbone
- Restore habitat in the Central Everglades, focusing on the “River of Grass”
- Deliver “new” sources of clean water to the Central Everglades and ENP
- Reduce undesirable discharges to east and west coast estuaries

CENTRAL EVERGLADES PLANNING PROJECT

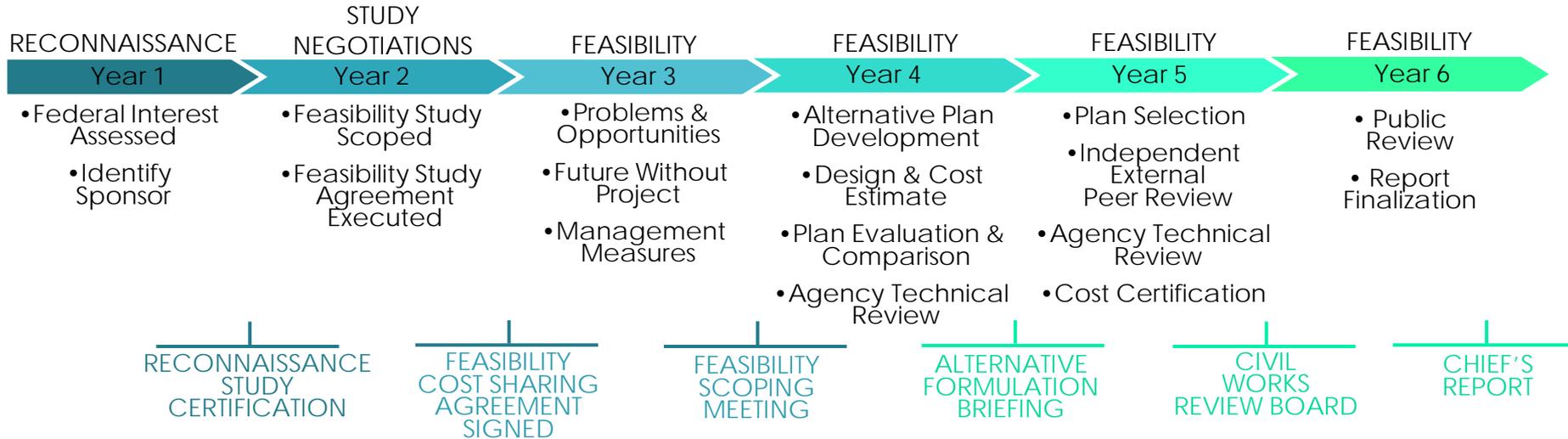


*Restoring the Heart
of the Everglades*

Study
Plan and
Process

PLANNING PROCESS TRANSFORMATION

CURRENT PLANNING PROCESS: 6+ YEARS (approximate timeframes)

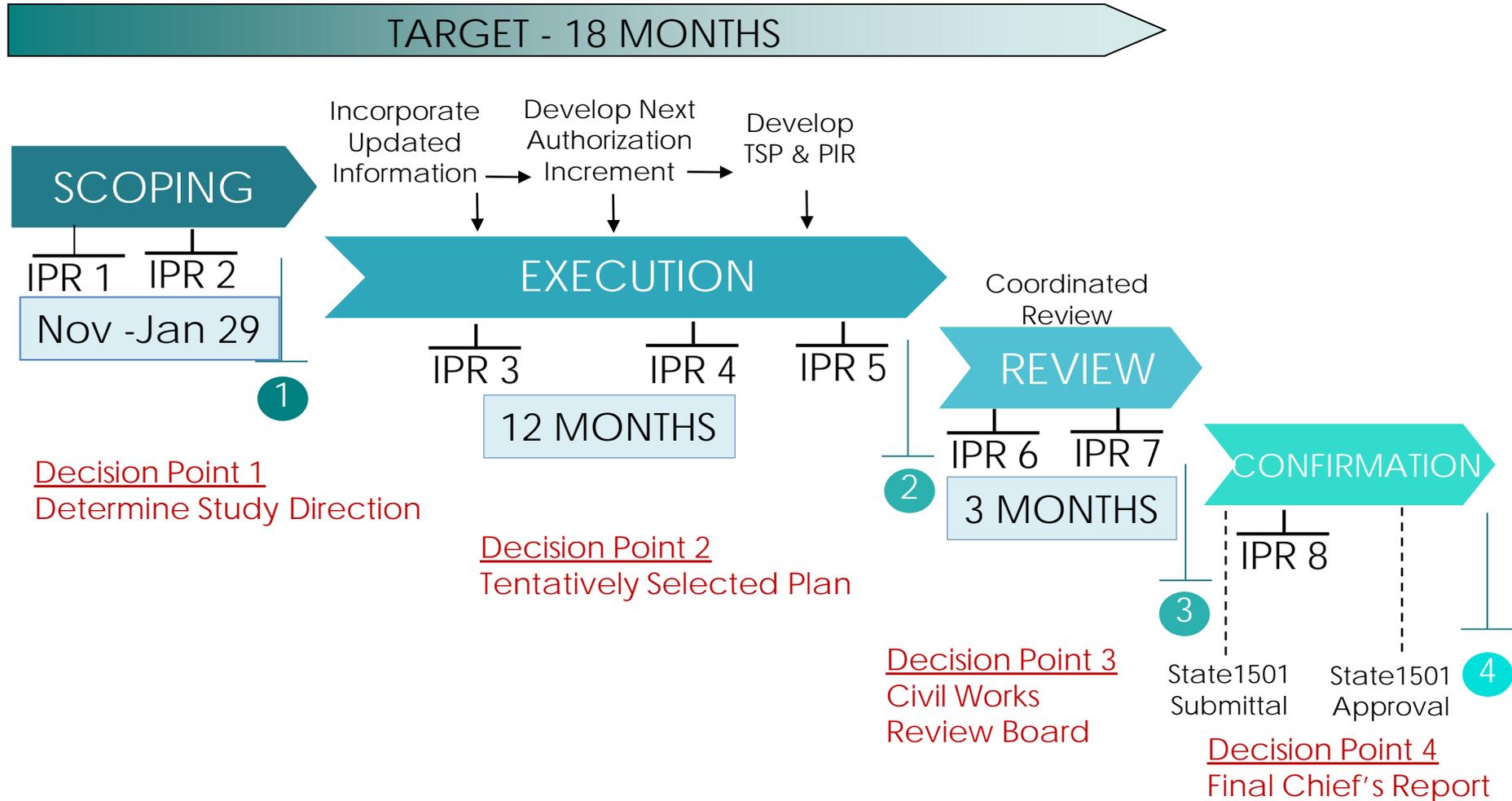


- Overly detailed, expensive, and takes a long time!
- The amount of time and data being invested in studies are not leading to a better product or decision
- Sponsors and Congress, as well as the Corps, are increasingly frustrated with the situation

PLANNING PROCESS TRANSFORMATION

- New process is about changing Corps decision making processes
 - Focuses on early decision making
 - Focuses on robust, clear scoping of analyses and decision-making criteria
 - Reduces unnecessary detail
 - Early vertical coordination
 - Designed to shave years off of the process

CENTRAL EVERGLADES PROCESS



IPR: In-Progress Review with Corps Leadership

PUBLIC PARTICIPATION PROCESS



CENTRAL EVERGLADES PLANNING PROJECT



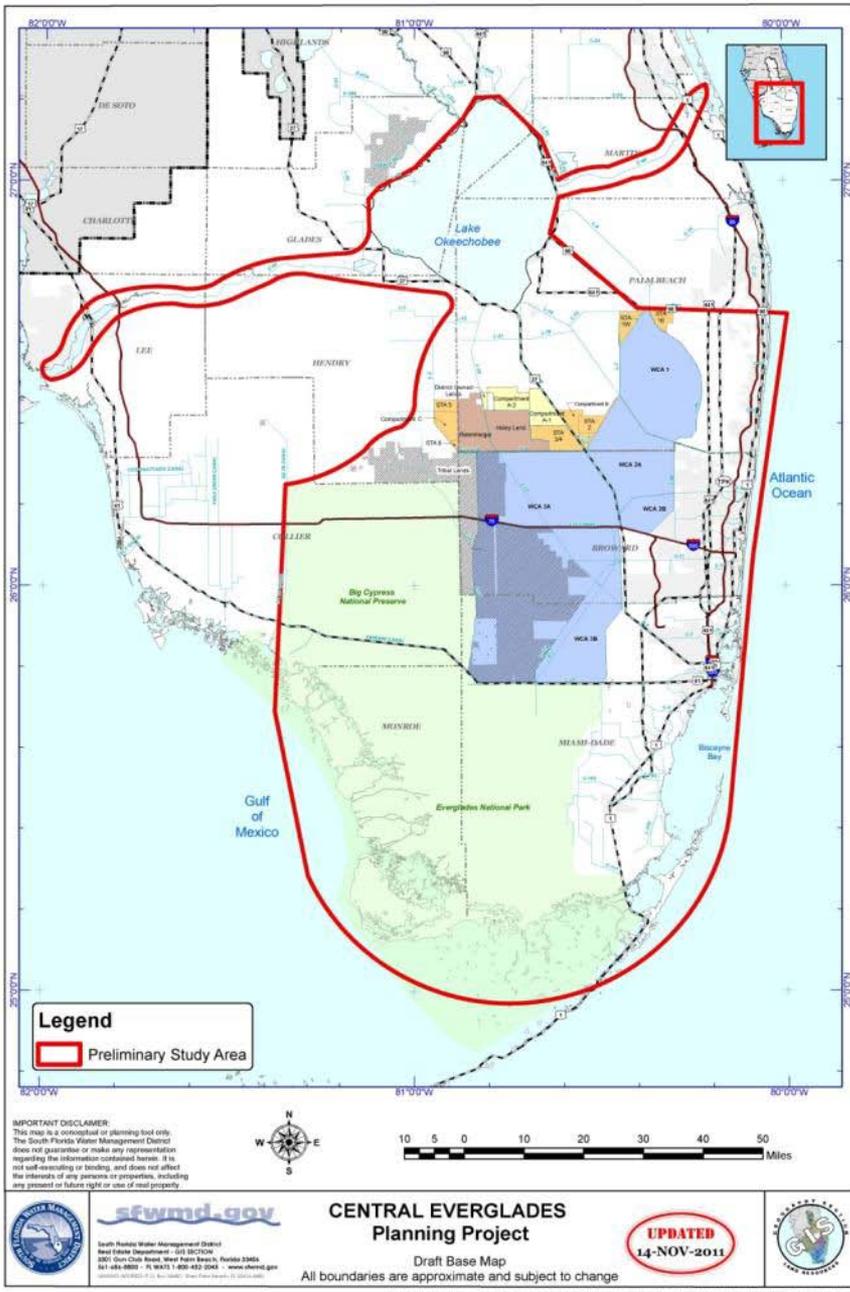
Study Area

Goals,
Objectives,
Constraints
and Other
Considerations

Study Area Map

Encompasses:

- Lake Okeechobee & Lake Okeechobee Service Area
- St. Lucie Estuary
- Caloosahatchee Estuary
- Everglades Agricultural Area
- Water Conservation Area 3
- Everglades National Park
- Florida Bay & Biscayne Bay
- Lower East Coast Service Area



Central Everglades - Goal

- To improve the quantity, quality, timing and distribution of water in the Northern Estuaries, Water Conservation Area 3, and Everglades National Park in order to restore the hydrology, habitat and functions of the natural system



Central Everglades - Objectives

- Restore seasonal hydroperiods and freshwater distribution to support a natural mosaic of wetland and upland habitat in the Everglades system
- Improve sheetflow patterns and surface water depths and durations in the Everglades system in order to reduce soil subsidence, frequency of damaging fires, decline of tree islands and decrease salt water intrusion

Central Everglades –Objectives (Continued)

- Reduce water loss out of the natural system to promote appropriate dry season recession rates for wildlife utilization
- Restore more natural water level responses to rainfall to promote plant and animal diversity and habitat function
- Reduce high volume discharges from Lake Okeechobee to improve the quality of oyster and SAV habitat in the northern estuaries

Central Everglades - Planning Constraints

- In accordance with Section 601(h)(5) of WRDA 2000 and Chapter 373.1501(4)(d), F.S.
 - Avoid any reduction in level of service for flood protection existing as of December 2000 caused by Plan implementation
 - Provide replacement sources of water of comparable quantity and quality for existing legal users caused by Plan implementation
- Meet applicable Water Quality Standards

Central Everglades – Other Considerations

- Lands purchased for restoration
- Use of available CERP cost-share credits
- Minimize adverse effects to Federally and State listed species under the Endangered Species Act and Florida Statutes
- Migratory Bird Treaty Act Compliance
- Agricultural Chemical Impacted Soils
- Impacts to Cultural Resources
- Impacts to Recreation
- Impacts to Prime and Unique Farmlands
- Environmental Justice

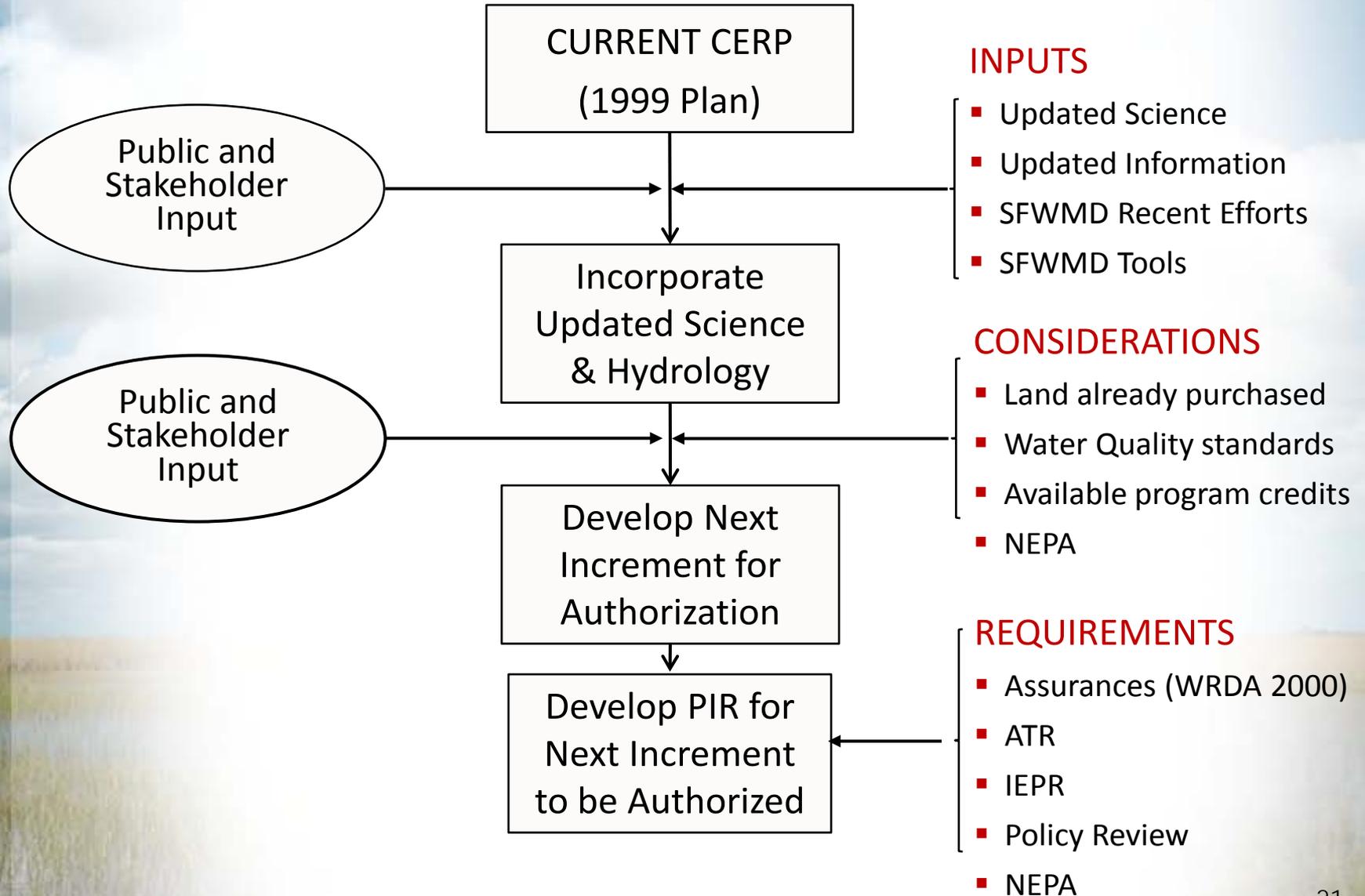
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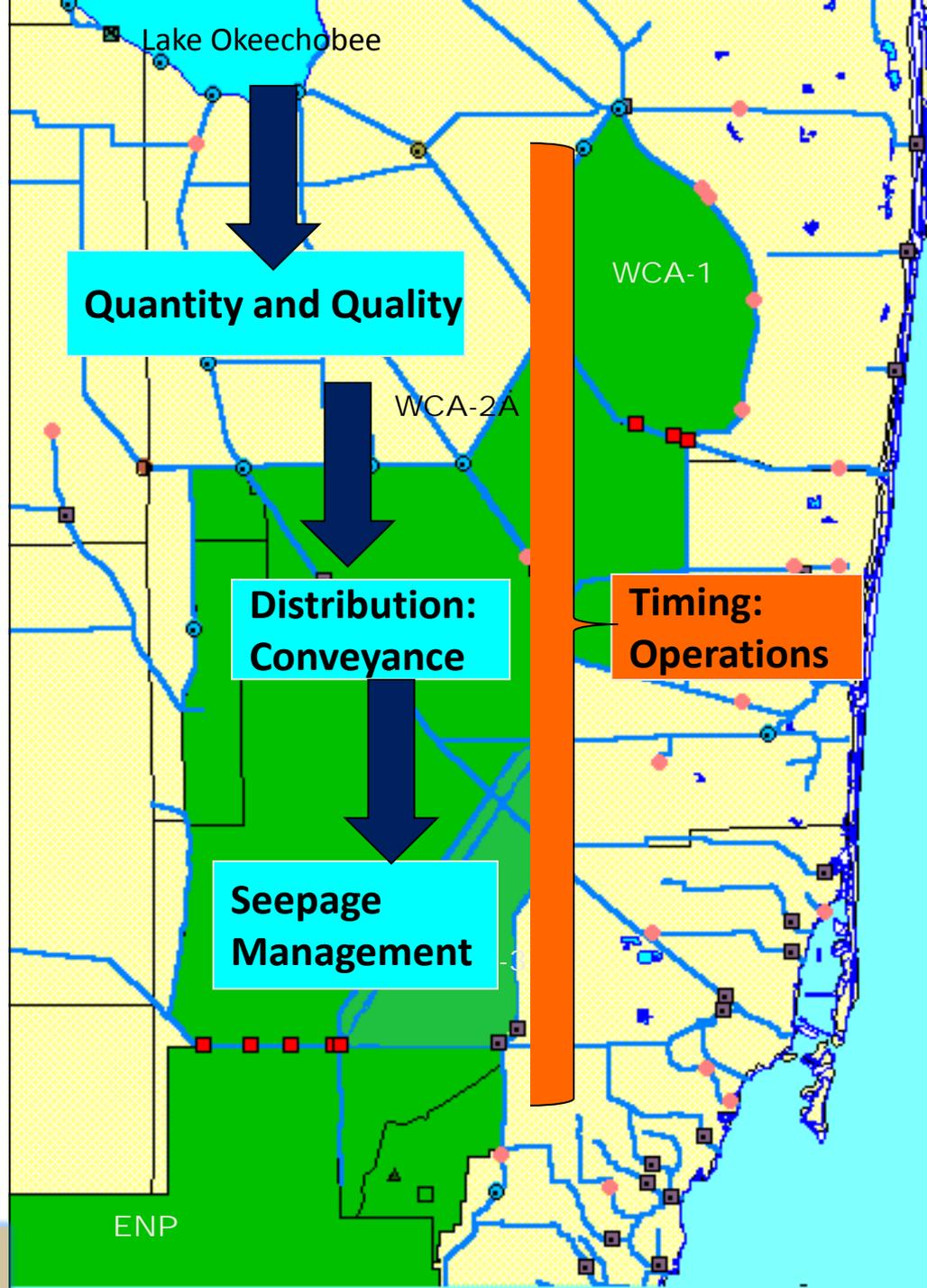
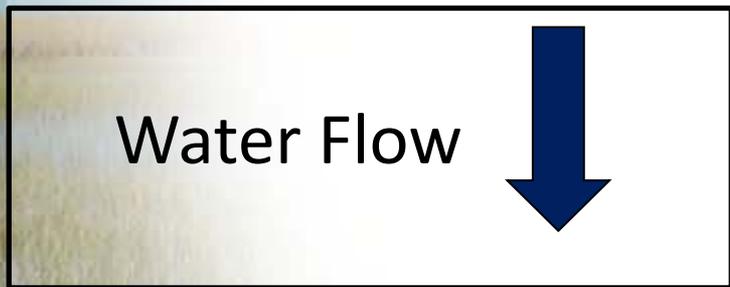
*Restoring the Heart
of the Everglades*

Plan
Formulation
Strategy for
Authorization
of Next
Increment

Central Everglades Planning



- Plan Formulation strategy will consist of a three-part sequential process that follows the natural path of water through the Everglades system and highlights the interdependent nature of the CERP components



Schedule/Milestone

Deliverables

DECISION POINT 1
Approval to Begin Execution
January 27, 2012

Study Scope/Schedule
 Conceptual Plan Formulation and Evaluation Strategies
 Risk Register
 Problems, Opportunities, Objectives and Constraints
 Existing and Future Without Project Conditions

IPR-3
Present the Plan Formulation Framework
March 29, 2012

Plan Formulation Framework	Management Measure Screening	Modeling/Design Strategy	Ecological Evaluation Screening Techniques
Component Interdependency Sequential North To South Flow Approach Optimization Strategy	Siting Analysis/Land Availability Constructability	Batch Processing Parametric Costs	Everview Thermometer Graphics
2 Months Establishing Planning Framework			

IPR-4
Present the Final Array of Alternatives
August 30, 2012

Identification of the Final Array of Alternatives	Evaluation Methodology for Final Array
Ecological Evaluation Results Parametric Cost Results Optimization Results	Detailed Habitat Unit Approach Modeling Approach EcoPCX Planning Model Recommendation
5 Months Management Measure Formulation and Screening	

IPR - 5
Present the Tentatively Selected Plan
October 30, 2012

Identification of The NER and Tentatively Selected Plan
 Costs (Construction, Real Estate and O&M) and Benefits (Habitat Units) of Final Array
 Value Engineering Analysis
 Cost Effectiveness and Incremental Cost Analysis

2 Months Final Array Evaluation

DECISION POINT 2
Approval to Release Draft PIR
January 31, 2013

Approval to Release DRAFT PIR
 TSP Detailed Design
 Project Assurances and Reservations
 ATR Documentation
 TSP MCASES

3 Months TSP Details

QUESTIONS?

http://www.evergladesplan.org/pm/projects/proj_51_cepp.aspx