

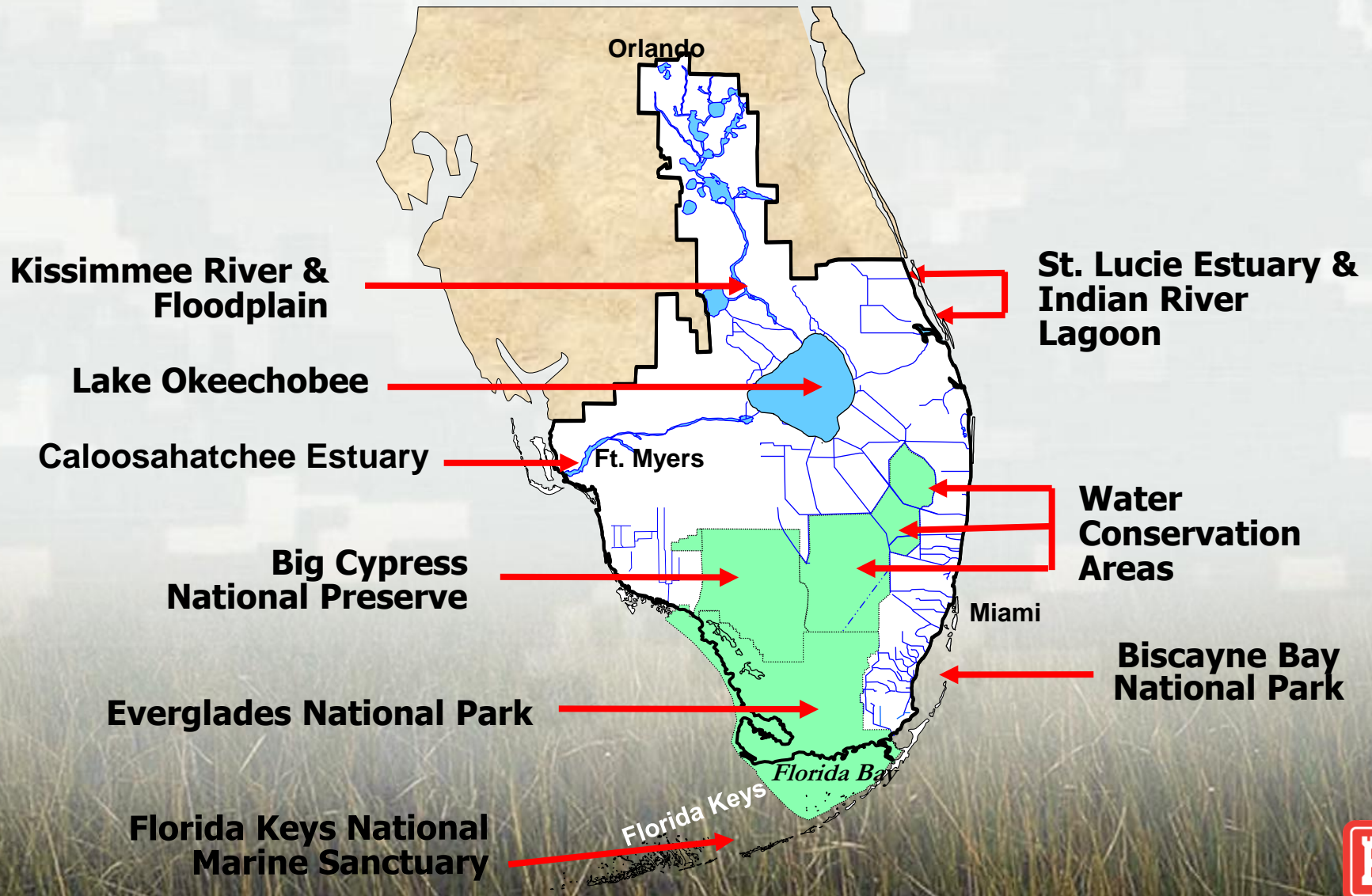
# Defining Everglades Restoration

**“The recovery and protection of the South Florida ecosystem so that it once again achieves and sustains the essential hydrological and biological characteristics that defined the undisturbed South Florida ecosystem.”**

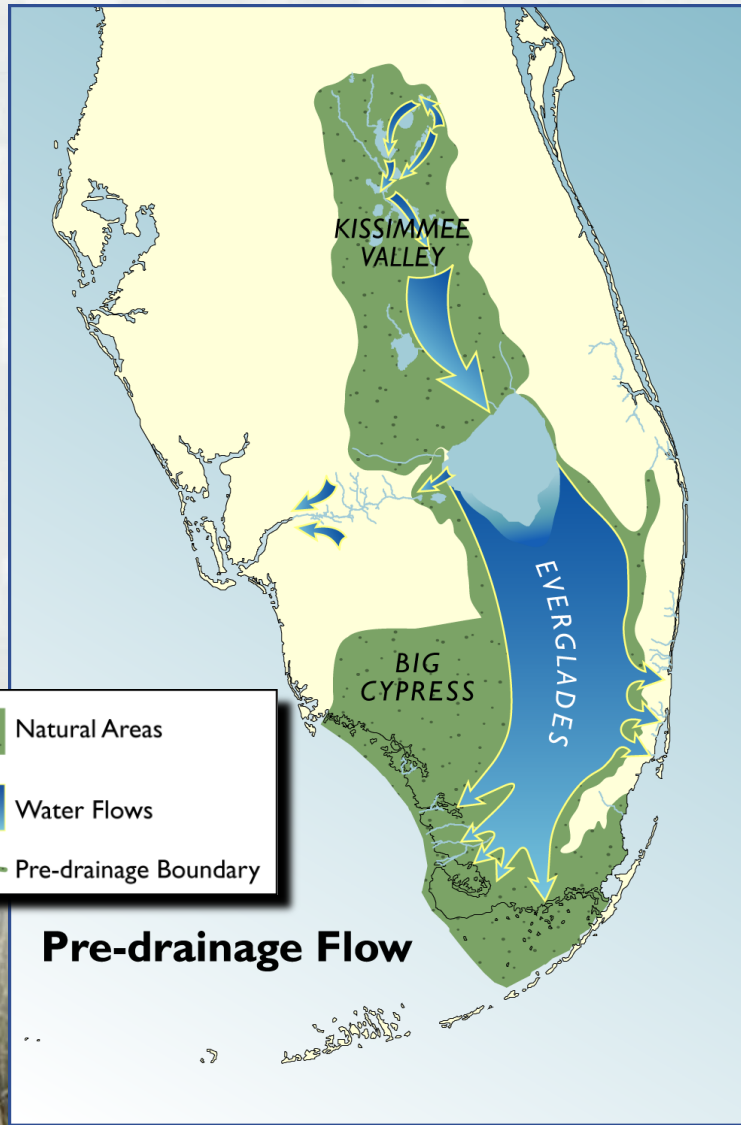
**- Programmatic Regulations 33 CFR 385**



# South Florida Ecosystem



# Historical Flows Significantly Altered



# An Ecosystem in Trouble....



- Too much or too little water for the South Florida ecosystem
- 50 percent reduction in spatial extent of natural system
- Declining estuary health
- Massive reductions in wading bird populations
- Degradation of water quality
- Loss of native habitat to invasive exotic vegetation
- 68 Federally-listed threatened and endangered species
- Repetitive water shortages and salt water intrusion



# Goals and Objectives

## ■ **Goal: Enhance Ecologic Values**

- Increase the total spatial extent of natural areas
- Increase the total spatial extent of natural areas
- Improve habitat and functional quality
- Improve native plant and animal species abundance and Diversity

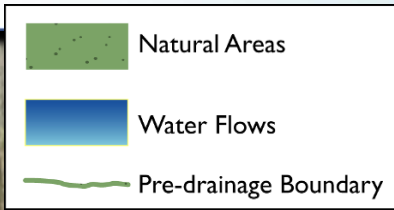
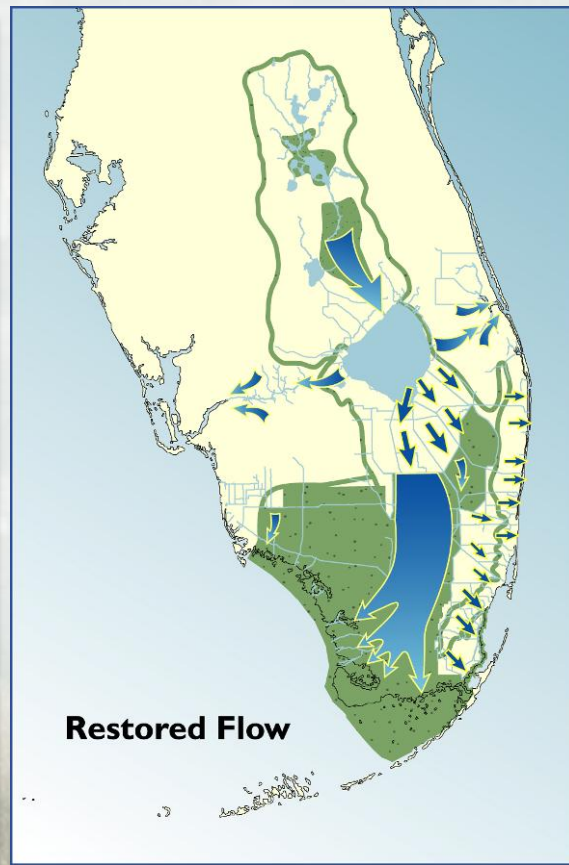
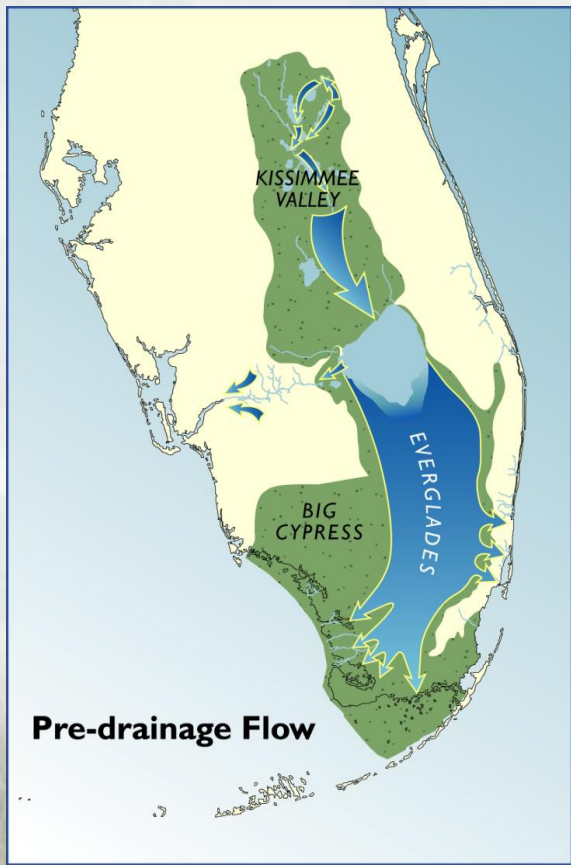
## ■ **Goal: Enhance Economic Values And Social Well Being**

- Increase availability of fresh water agricultural, municipal & industrial)
- Reduce flood damages (agricultural/urban)
- Provide recreational and navigation opportunities
- Protect cultural and archeological resources and values

– CERP Feasibility Report, 1999

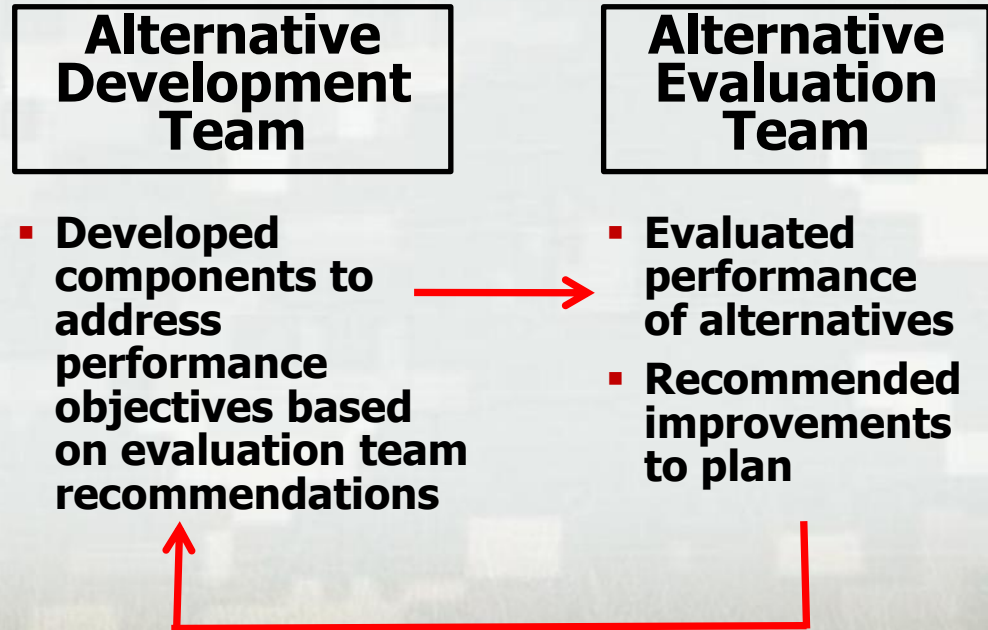


# The Goal



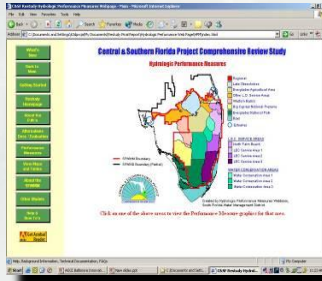
# Development of the Comprehensive Plan

- **10 Alternative comprehensive plans formulated and evaluated**
- **Over 20 scenarios modeled**
  - Provided insights to assist in alternative development process
  - Developed sensitivity analyses of select features



# Building Consensus

**“Realtime”  
Data  
Sharing**



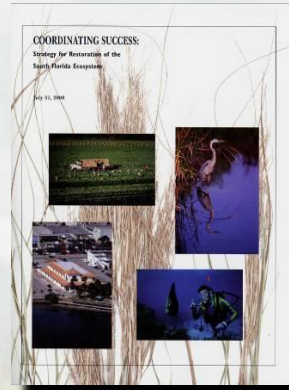
**Active  
Public  
Involvement**



**CENTRAL AND SOUTHERN FLORIDA PROJECT  
COMPREHENSIVE REVIEW STUDY  
INTEGRATED FEASIBILITY REPORT AND  
PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT**



**Working  
Group and  
Task Force**



**Interagency Team**



**Public  
Workshops**








**Governor's  
Commission**



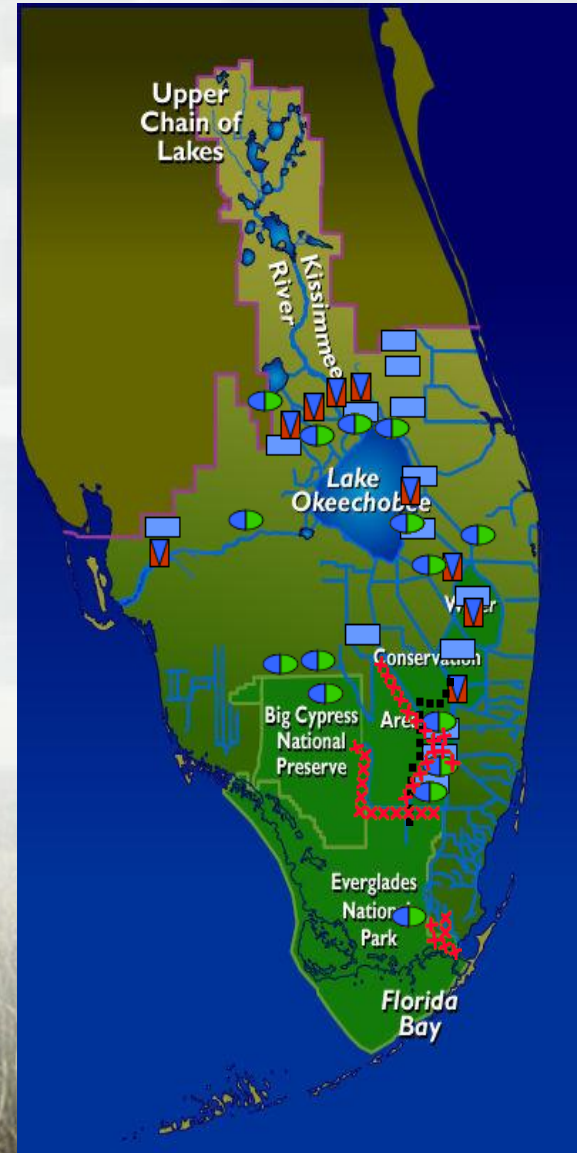


# Comprehensive Everglades Restoration Plan

## ■ 68 Components

- Surface Storage 
- Aquifer Storage & Recovery 
- STAs for water quality 
- Seepage management 
- Removing barriers to flow 
- Revised operations

## ■ 30+ year implementation



# Authorization and Funding

## ■ Major Authorizations:

- Modified Water Deliveries – 1989
- Kissimmee River – 1992
- CERP – 2000
- CERP – 2007

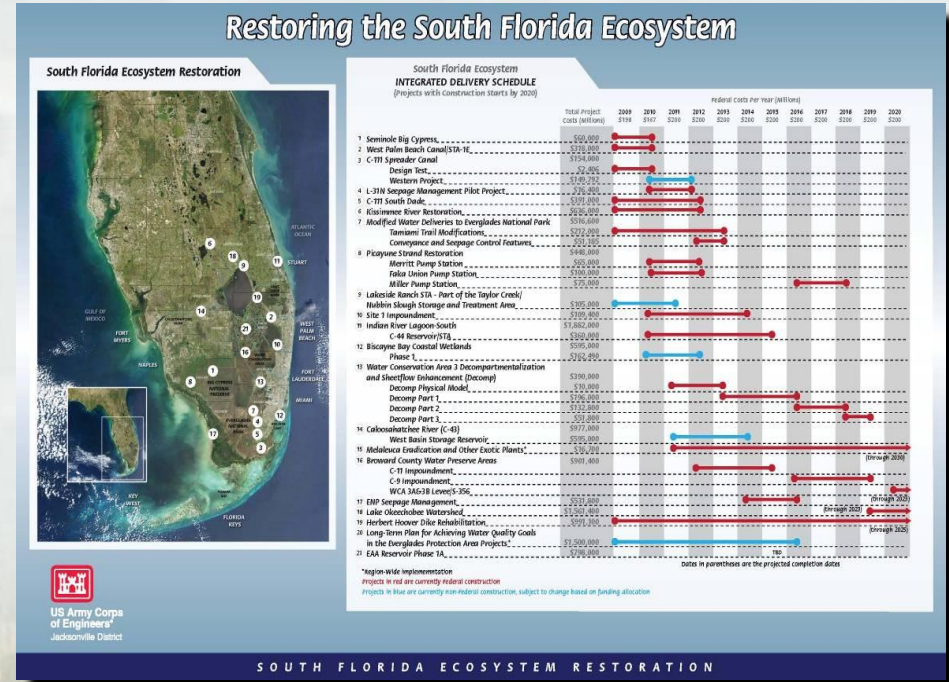
## ■ Recent Funding

- FY06 – \$156M
- FY07 – \$165M
- FY08 – \$155M
- FY09 – \$183M
- ARRA – \$95M
- FY10 – \$180M
- FY11 – \$180M



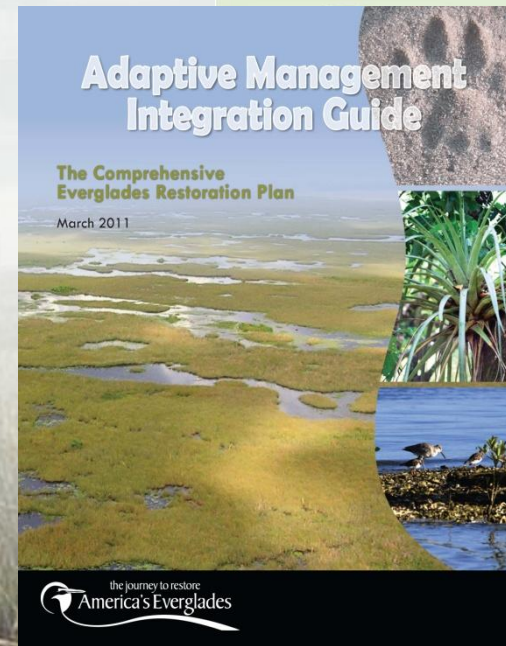
# Program Sequencing: Integrated Delivery Schedule

- Focuses on projects to be under construction by 2020
- Guides sequencing of Federal and non-Federal projects
- Phases large projects to provide early benefits and learning



# Adaptive Management Program

- Authorized in WRDA 2000 – \$100M for 10 years
- Programmatic Regulations (33 CFR 385) – processes for implementing adaptive management
- Biennial reviews by National Academy of Sciences
- Major Activities
  - Pilot projects
  - RECOVER
  - Monitoring and Assessment Plan (MAP)
  - Adaptive Management Implementation Guide
  - System Status Reports
  - Interim Goals and Targets



# Successes to Date

- **RECOVER Monitoring, assessment, and adaptive management programs implemented**
- **ASR pilot projects operational**
- **Construction of first generation of CERP projects underway**
- **Completing authorization reports for second generation of CERP projects**
- **Modified Water Deliveries and Kissimmee River Restoration projects nearing completion**



# Challenges

- **Future funding**
- **Water quality litigation**
- **Streamlining implementation processes**
- **Management of invasive and exotic species**
- **Impacts of climate change**

