



**South Florida  
Ecosystem  
Restoration  
Integrated Schedule  
Development**

Task Force Meeting  
September 27, 2007

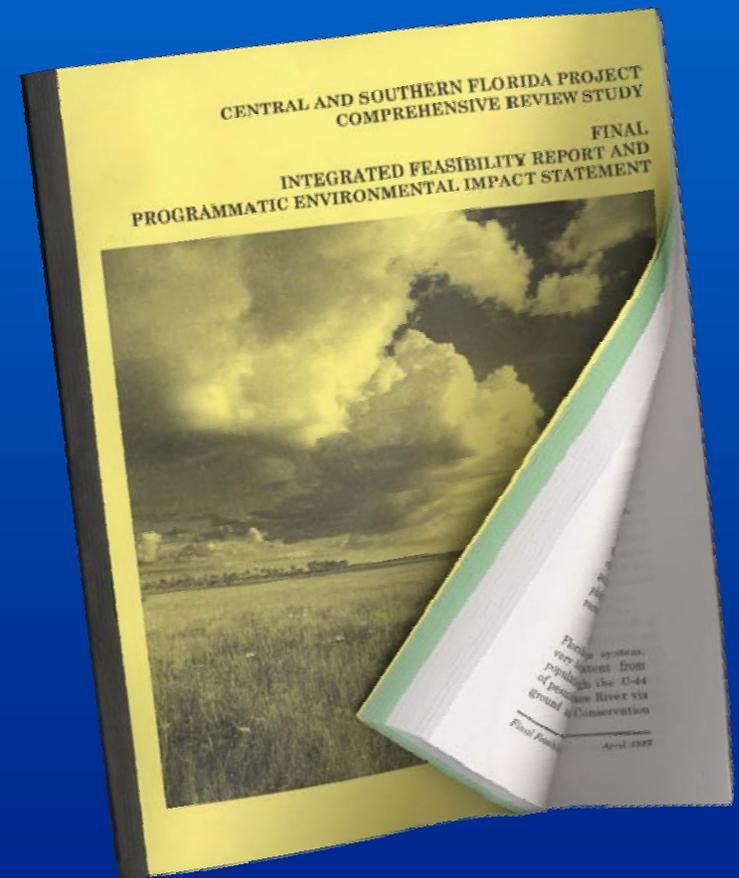
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# Topics

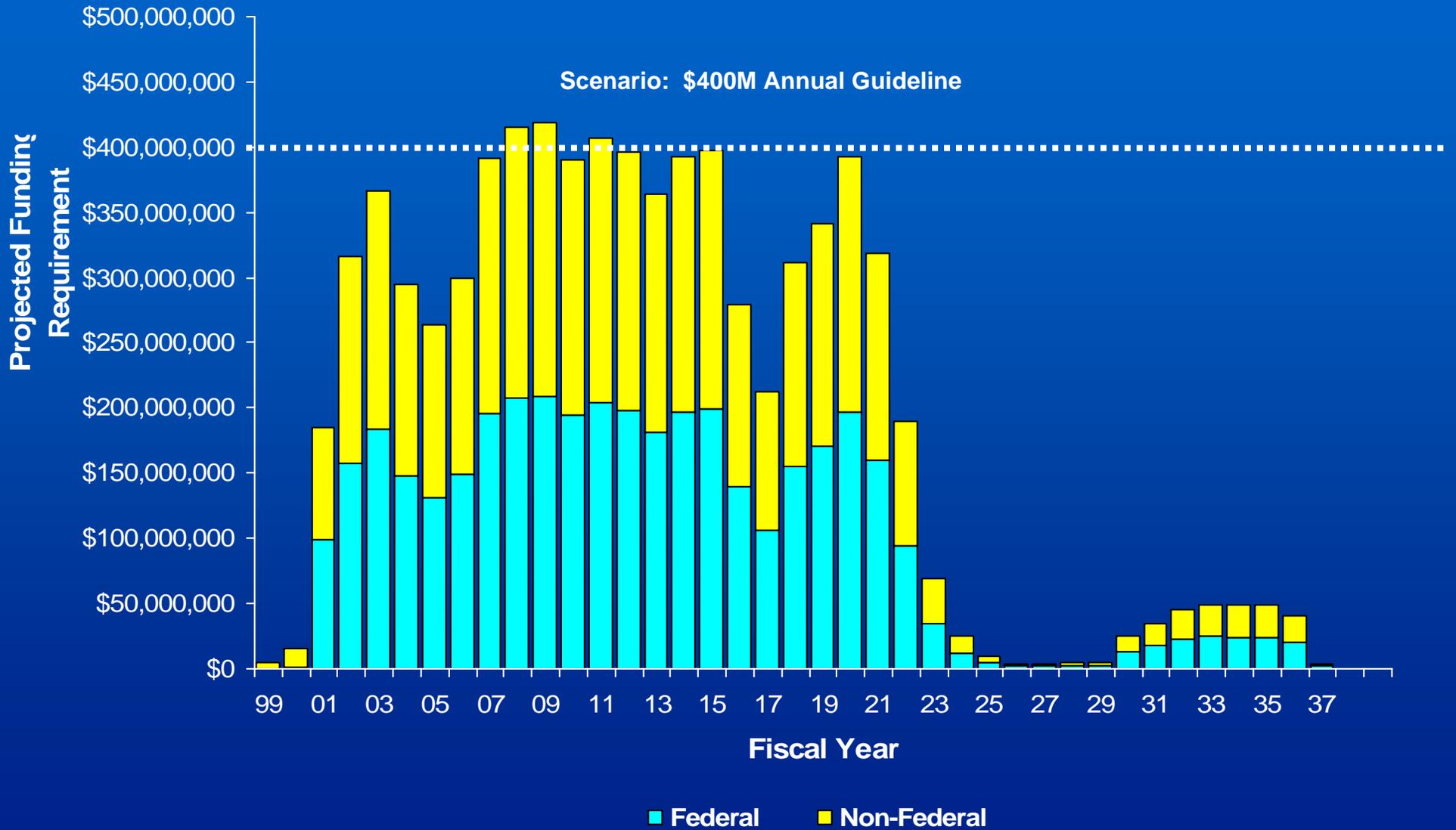
- Background
  - Yellow Book Implementation Plan
  - MISP
- Integrated Schedule
- Next Steps

# 1999 Yellow Book Implementation Plan

- Contained implementation plan with detailed charts showing sequencing of CERP projects
- Based on annual funding level of \$200M Federal and \$200M non-Federal
- 35+ year implementation period, with most projects completed by 2020+
- Coordinated with stakeholders prior to inclusion in Yellow Book



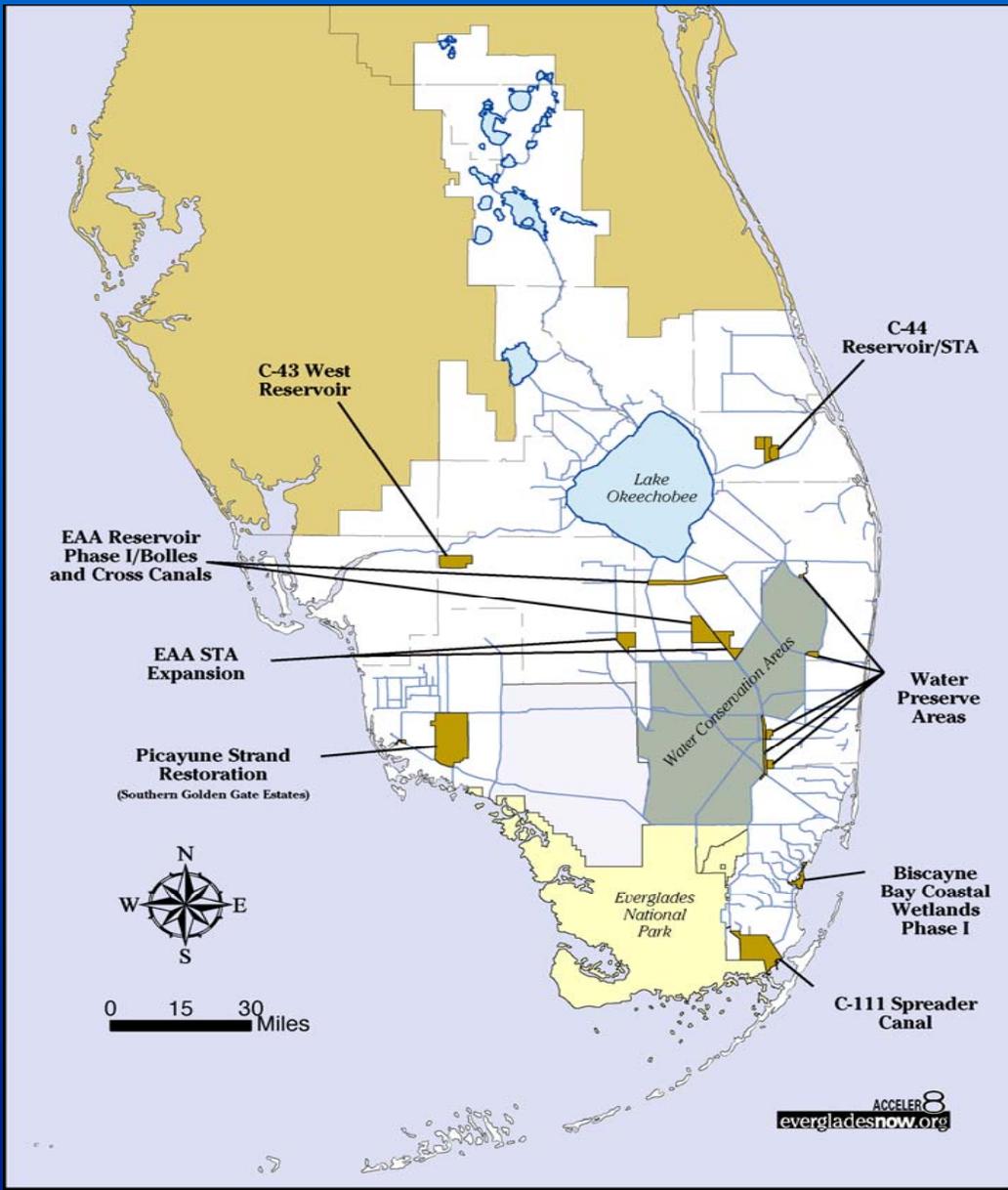
# Yellow Book Implementation Plan



# Master Implementation Sequencing Plan (MISP)

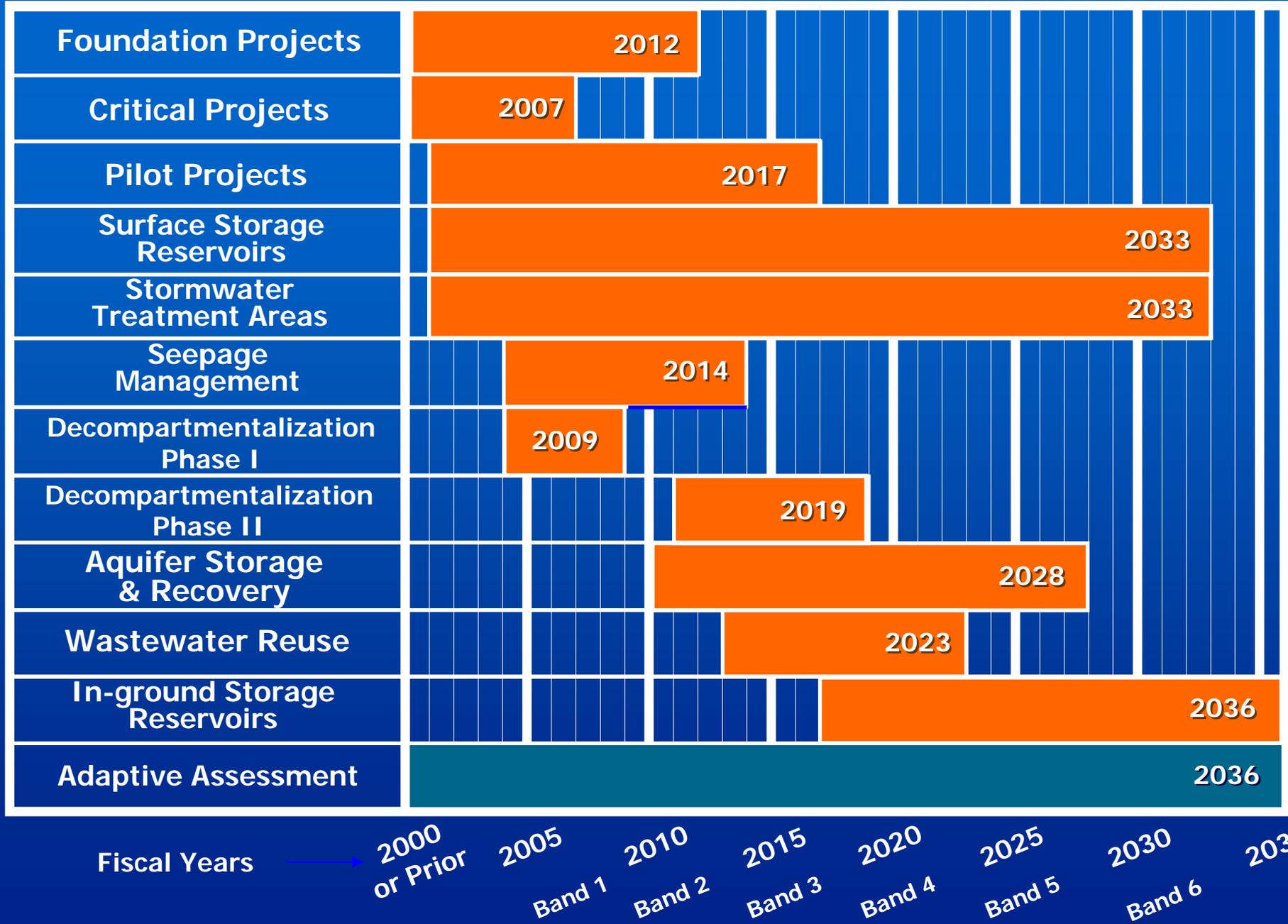
- Required by Programmatic Regulations
- Current version completed in 2005
- MISP defines the order in which the many projects within the South Florida Ecosystem Restoration Program will be planned, designed and constructed
- MISP based on banding - grouping of those products and projects to be accomplished within specific 5-year time periods
- Includes Acceler8 projects

# Acceler8 Projects

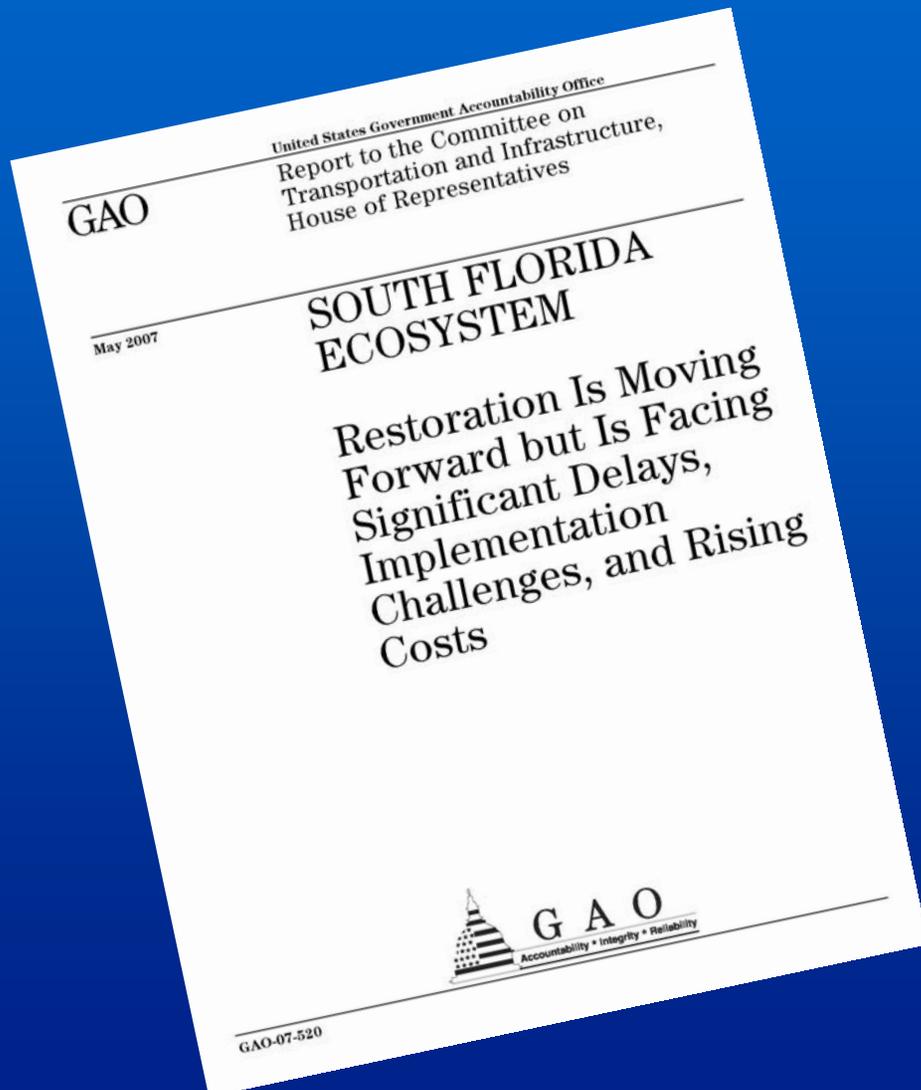


- Announced by the Governor in October 2004 to provide immediate benefits to the South Florida ecosystem
- Cost : \$1.5 billion
- Majority of the projects were a part of the 10 initially authorized projects in WRDA 2000
- Most of the land already in public ownership – acquired with federal and state partnership funds
- Projects are in accordance with the Master Implementation Sequencing Plan

# Master Implementation Sequencing Plan

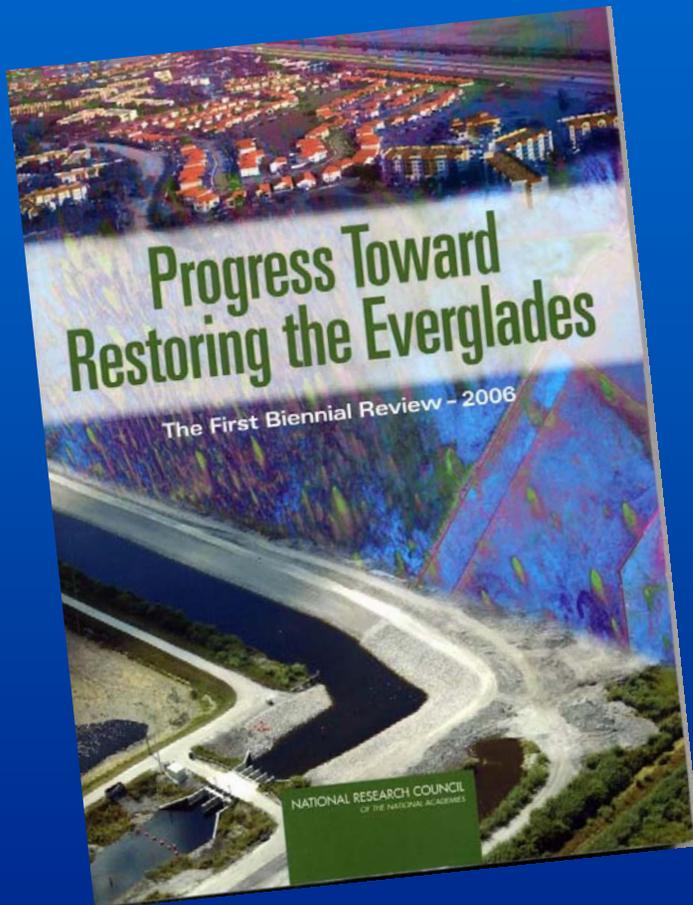


# May 2007 GAO Report



- Core group of projects behind schedule
- No overarching sequencing criteria used for decision-making
- Implementation decisions mostly driven by availability of funds
- Sequencing plan in 2005 not consistent with criteria established by the Corps
  - Sequencing driven by technical dependencies

# NAS Report to Congress



- Biennial report required by WRDA 2000 to review progress towards achieving restoration goals of CERP
- “Natural system restoration will be best served by moving the system as quickly as possible toward physical, chemical, and biological conditions that previously molded and maintained the historical Everglades.”
- “...the remaining Everglades landscape will continue to move away from conditions that support the defining ecosystem processes until greater progress is made in implementing CERP and non-CERP progress.”

# Incremental Adaptive Restoration (IAR)

- Recommended Incremental Adaptive Restoration (IAR) approach to accelerate natural system restoration
  - Make investments that are significant enough to produce benefits while resolving scientific uncertainties
- IAR not simply reshuffling of priorities in project implementation schedule
  - IAR steps may be smaller than CERP projects or components
  - Take actions that promote learning
- IAR approach supports CERP adaptive management strategy
- The existing authorization and budgeting process need to be modified to accommodate the IAR process

# What's Wrong with the Existing Sequencing?

- Many changes since Yellow Book
  - No Water Resources Development Acts since 2000
  - No new construction starts in Federal budgets
- Federal funding has not reached levels anticipated
- Existing sequencing does not provide for early project benefits
- IAR concepts not incorporated into sequencing
- Need to focus resources



## What's Needed - An Integrated Schedule

- Focus on delivering meaningful restoration benefits as early as possible
- Phase large projects as necessary to provide early benefits and learning
- Include foundation projects as well as CERP in program sequencing
- Include new programs such as Northern Everglades restoration
- Update existing project schedules to provide current status and practical timelines for implementation

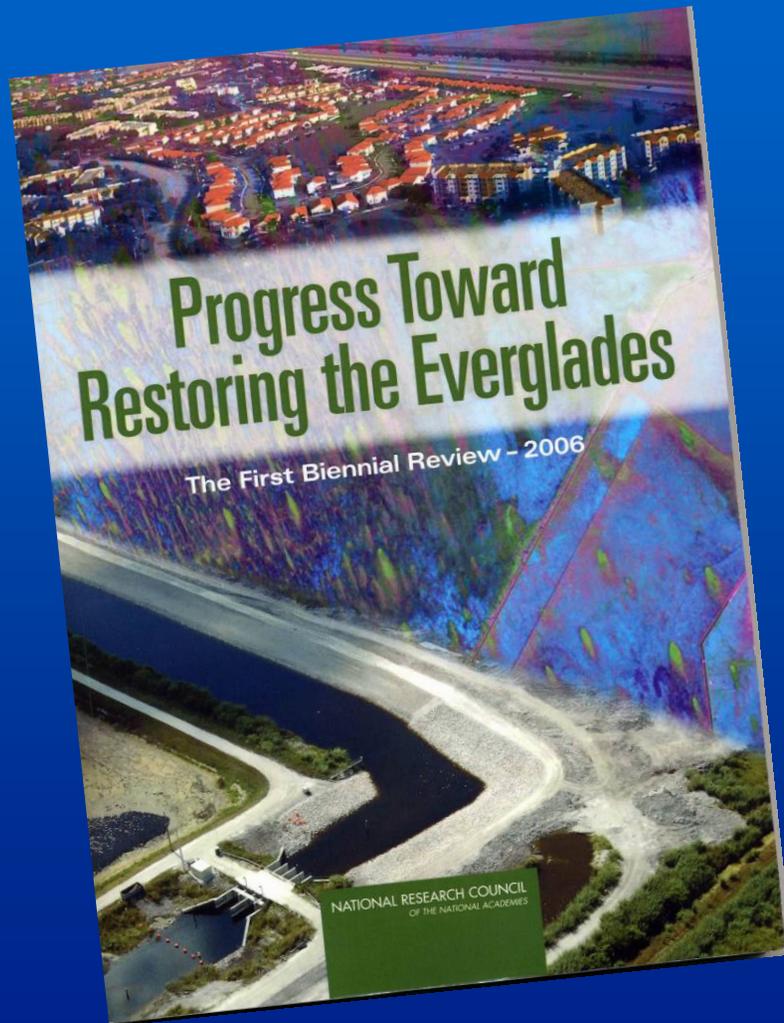
# Integrated Schedule Guiding Principles

- Projects should be implemented in sequence that achieves goals at earliest possible time, consistent with funding
- As appropriate, physical dependencies should drive order of projects
- As appropriate, projects should be broken into multiple PIRs to facilitate IAR approach
- As appropriate, use the Interim Goals to measure restoration progress
- Key points in implementation are defined by new system operating manuals

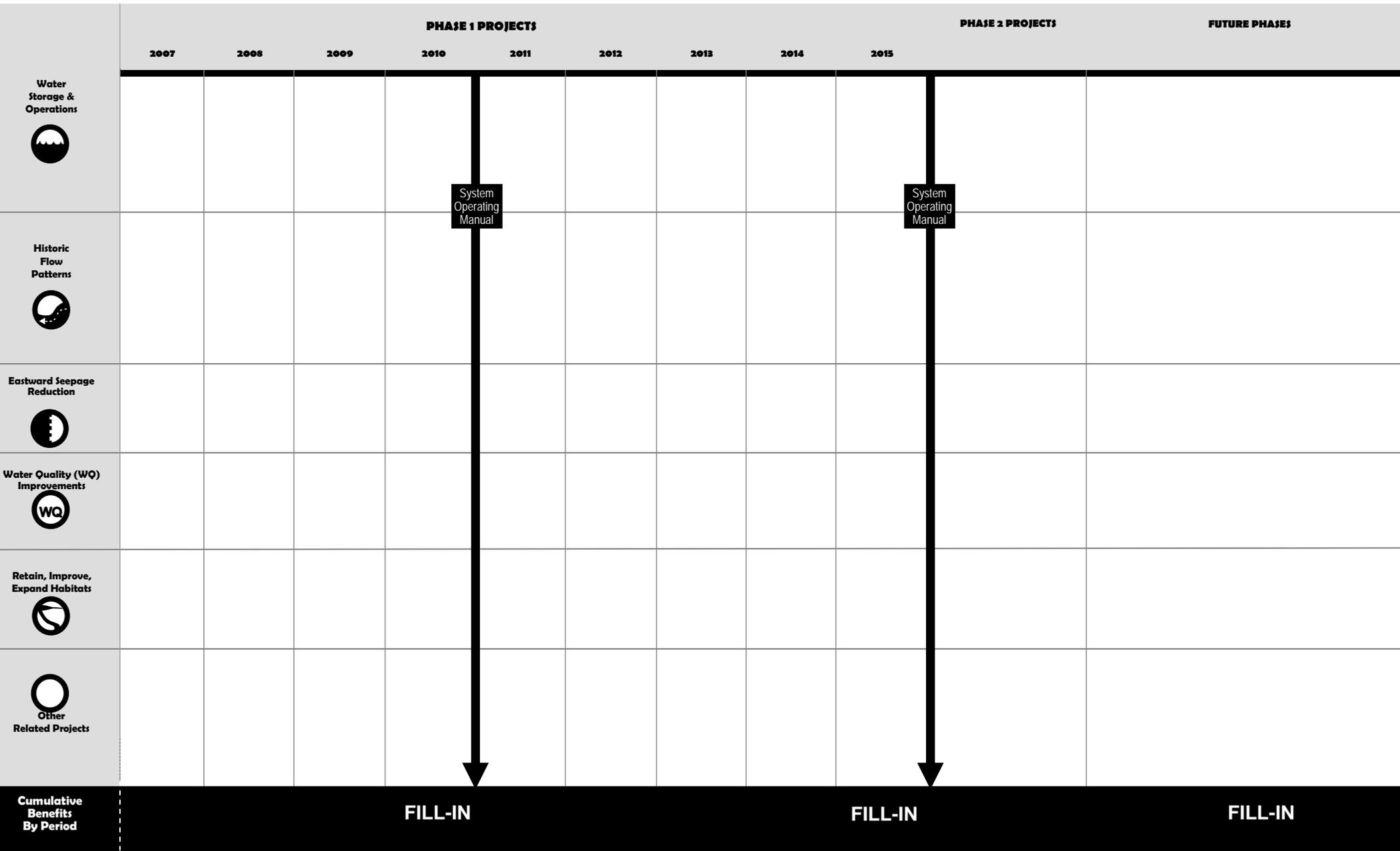
# PIRs Currently Being Phased

- Everglades Agricultural Area
- C-43 Basin
- Biscayne Bay Coastal Wetlands
- Decompartmentalization
- C-111 Spreader Canal

# Critical Components of Restoration (per NAS)

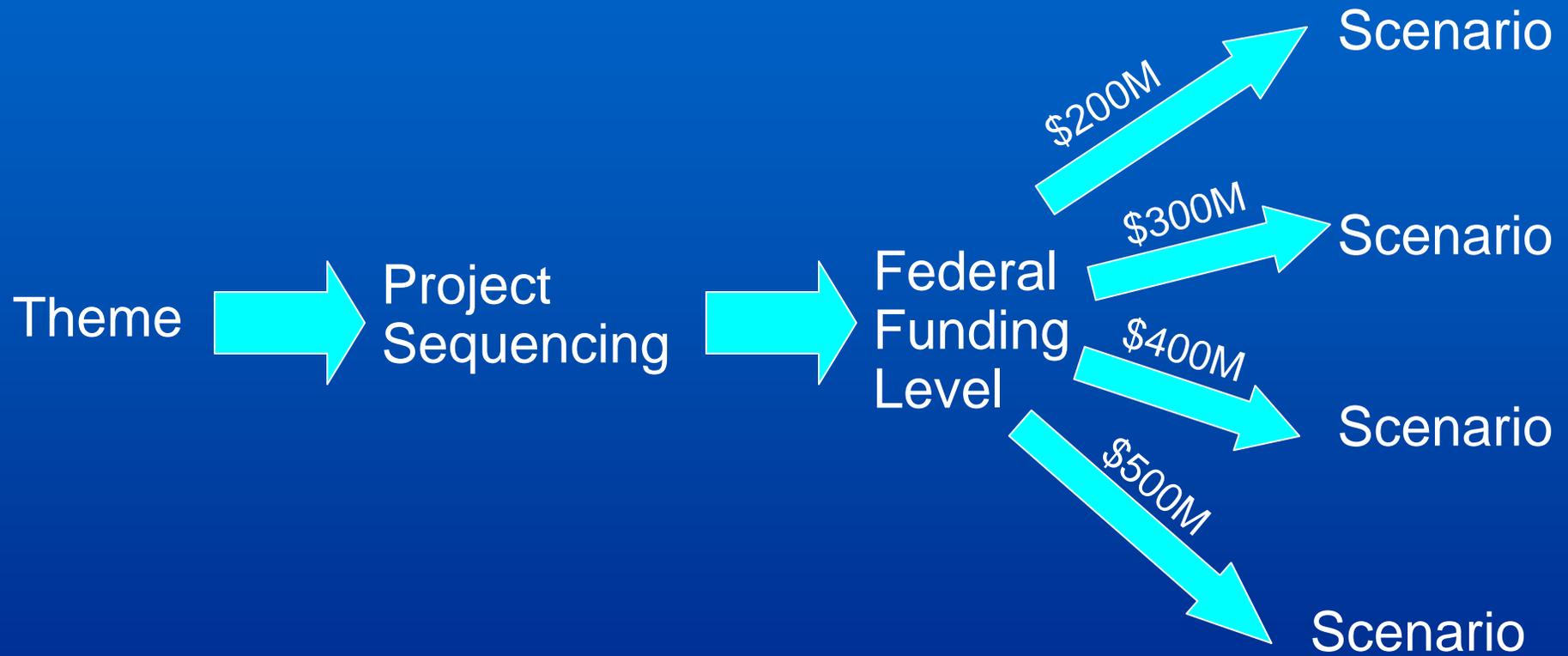


- Sufficient water storage capacity combined with operations
- Deliver and distribute the water to the natural system in a way resembling historical flow patterns
- Barriers to eastward seepage of water
- Methods for securing water quality conditions compatible with restoration
- Retention, improvement, and expansion of full range of habitats



South Florida Everglades Ecosystem Restoration Integrated Delivery Schedule

# Scenario Development

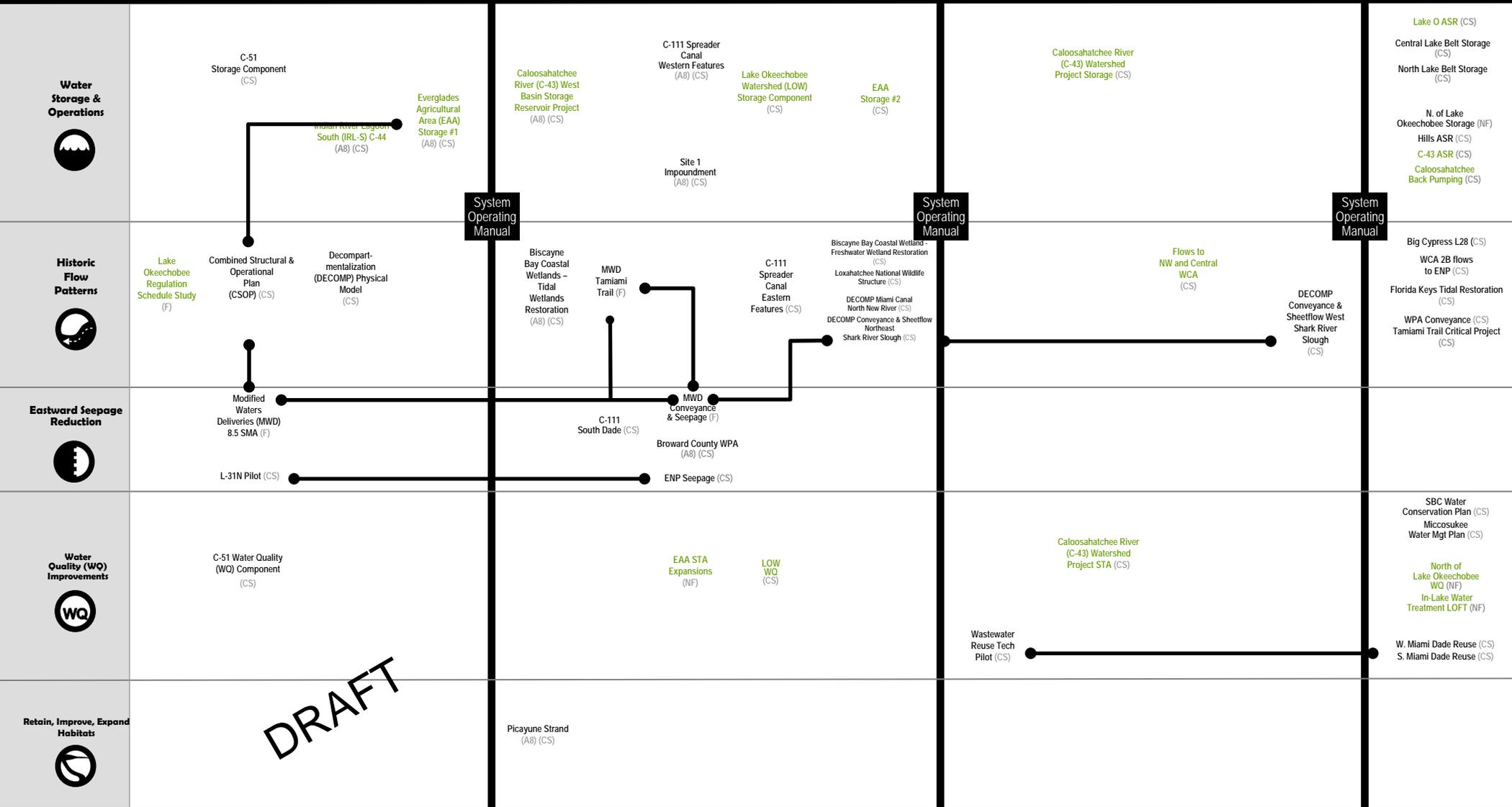


# Potential Themes

- Focus on sheetflow restoration
- Focus on estuaries restoration
- Focus on Lake Okeechobee restoration
- Focus on storage

DRAFT

# Sheetflow



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System Operating Manual

System Operating Manual

System Operating Manual

Also a component of the Northern Everglades scenario

GOALS TO BE DETERMINED

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# Northern Everglades

## Estuaries

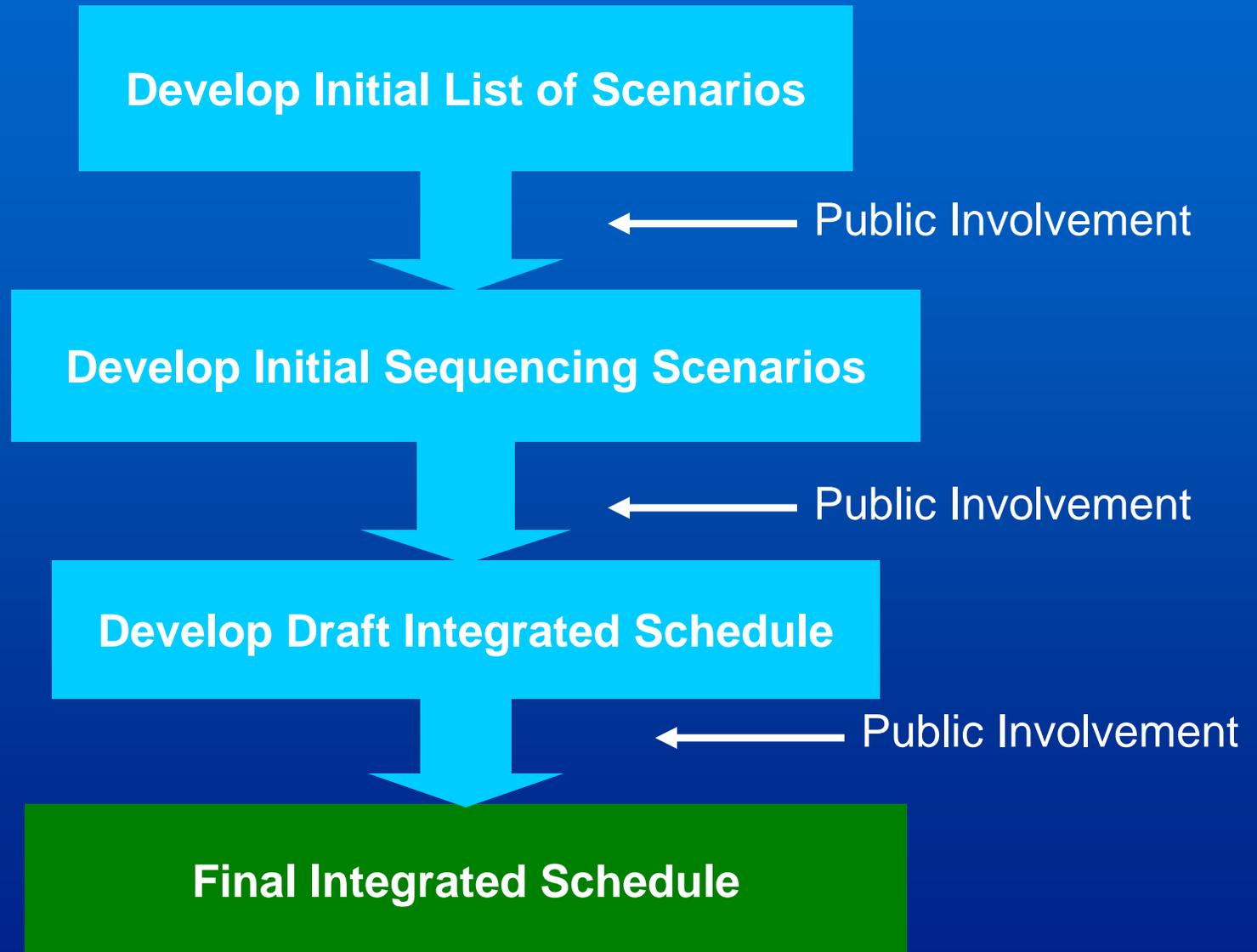
<p><b>Water Storage &amp; Operations</b></p> 	<p>Lake Okeechobee ASR Pilot (CS)          Indian River Lagoon South (IRL-S) C-44 (A8) (CS)          Everglades Agricultural Area (EAA) Storage #1 (A8) (CS)</p>	<p>Caloosahatchee River (C-43) West Basin Storage Reservoir Project (A8) (CS)          Lake Okeechobee Watershed (LOW) Storage Component (CS)          IRL-S C-23 &amp; C-24 Reservoirs (CS)          EAA Storage #2 (CS)</p>	<p>IRL-S C-25 Reservoir &amp; STA (CS)          Caloosahatchee River (C-43) Watershed Project Storage (CS)</p>	<p>Lake O ASR (CS)          Kissimmee Basin Storage (CS)          C-43 ASR (CS)          Caloosahatchee Back Pumping (CS)          N. of Lake Okeechobee Storage (NF)</p>
<p><b>Historic Flow Patterns</b></p> 	<p>Lake Okeechobee Regulation Schedule Study (F)</p>	<p>Kissimmee River Restoration (CS)</p>	<p>Flows to NW and Central WCA (CS)</p>	
<p><b>Eastward Seepage Reduction</b></p> 				
<p><b>Water Quality (WQ) Improvements</b></p> 	<p>DRAFT</p>	<p>EAA STA Expansions (NF)          LOW WQ (CS)          IRL-S C-23/24 STA (CS)</p>	<p>Caloosahatchee River (C-43) (Watershed Project STA (CS)</p>	<p>North of Lake Okeechobee WQ (NF)          In-Lake Water Treatment LOFT (NF)</p>
<p><b>Retain, Improve, Expand Habitats</b></p> 	<p>Manatee Pass Gates (CS)</p>	<p>LOW Paradise (CS)</p>		<p>IRL-S Muck Removal (CS)          IRL-S Natural Areas (CS)</p>

GOALS TO BE DETERMINED

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# Integrated Schedule Process



# Next Steps

- Finalize list of themes
- Develop initial scenarios based on themes and Federal funding levels

# Discussion

