

South Florida Ecosystem Restoration Task Force

Measuring System-wide Success

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Science Coordination Group

November 1, 2006

West Palm Beach, Florida

SFWMD



www.sfrestore.org

Task Force Directives

- Develop a small set of indicators to assess restoration goals system-wide
- Conduct Independent Scientific Review of the process and the indicators
- Process should be transparent and open to the public



8 Essentials for Measuring Success

- **Scientific Consensus** on Ecosystem Structure & Function – CEMS
- **Indicators** of Ecosystem Structure or Function (Environmental Conditions)
- **Performance Measures** to compare interim and end point results with desired outcomes
- **Goals** to set interim or end points against which to measure trends
- **Baselines** to establish points of comparison
- **Monitoring Program** to collect the data for assessments
- **Assessments** to analyze the data and evaluate the progress and results
- **Communication Tools** to inform, advise and educate the restoration community



2006 System-wide Indicators

1. Fish & Macroinvertebrates
2. Wading Birds (Woodstork, White Ibis & Roseate Spoonbill)
3. Florida Bay Submerged Aquatic Vegetation
4. Florida Bay Algal Blooms
5. Crocodylians (Alligators & Crocodiles)
6. American Oysters
7. Periphyton-Epiphyton
8. Juvenile Pink Shrimp
9. Lake Okeechobee Littoral Zone
10. Invasive Exotic Plants
11. Water Volume
12. Salinity Intrusion in the Biscayne Aquifer
13. Flood Protection – C-111 Basin



Where do the TF System-wide Indicators stand in regard to the 8 essentials for measuring success?



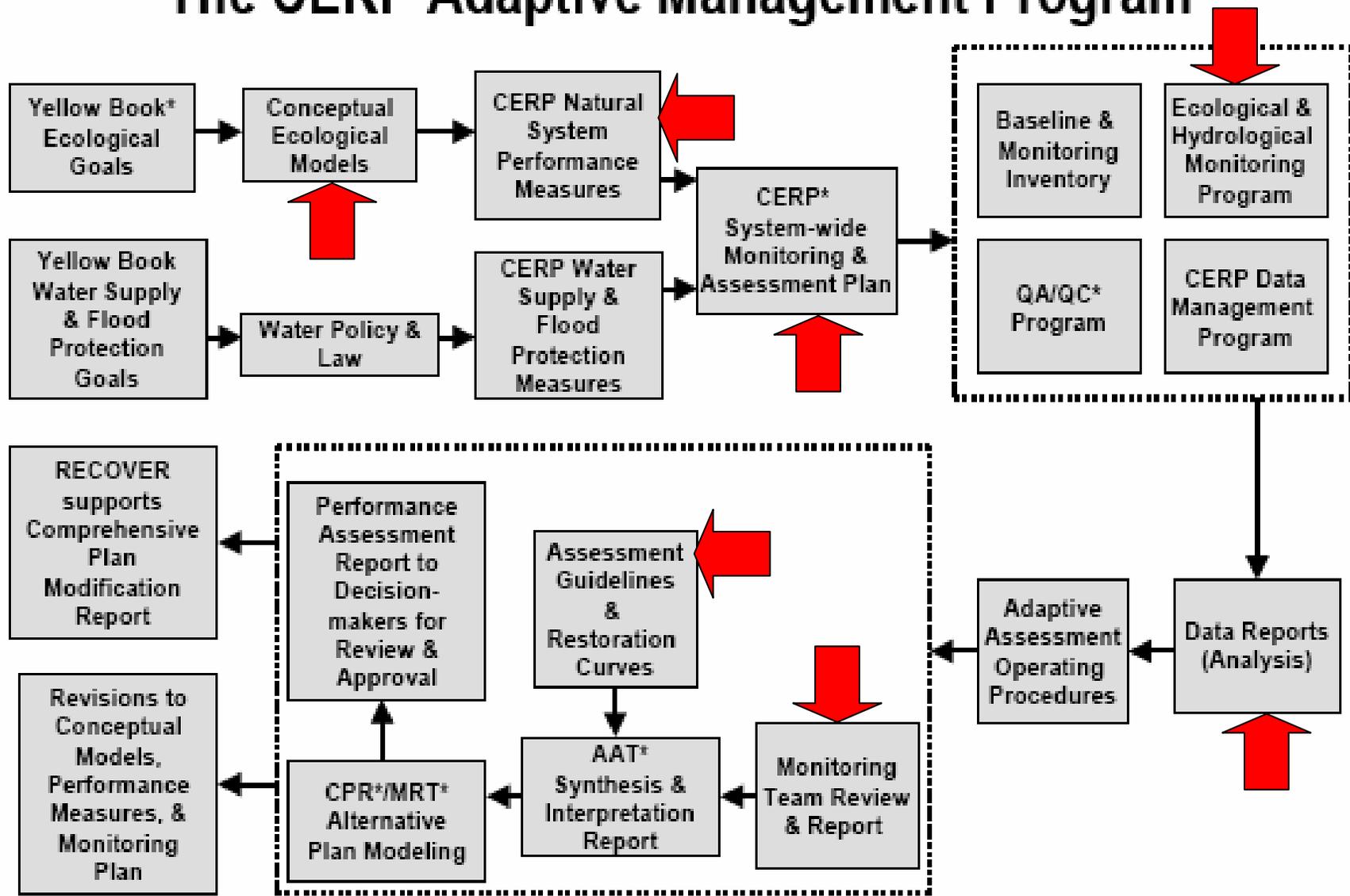
How do the Task Force System-wide Indicators

8 Essentials

Integrate and Coordinate with
RECOVER Adaptive
Management Program
& Applied Science Strategy?



The CERP Adaptive Management Program



Red Arrows Indicate Critical Points of Inclusion or Consideration for SCG System-wide Indicator Functions

Next Steps?

- October - Initial Template for Crocodilians to Include
 - Performance Measures
 - Goals
 - Communication Tool
 - Stoplight format questions and sample table
 - Multiple Summary Chart series
 - Detailed Data and Statistical Analysis Chart
 - Baseline
- Refine Initial Crocodilian Template with indicator scientists, RECOVER and SCG members by Jan/Feb 2007
- Use Crocodilian template for other Indicators to develop full templates for all indicators by May/June 2007
- Review of all Indicator Templates with indicator scientists, RECOVER and SCG by Fall/Winter 2007
- First TF System-wide Assessment of Indicators 2008



South Florida Ecosystem Restoration Task Force

Independent Scientific Review of System-wide Indicators

Jeffrey L. Jordan, Chair, U. Georgia

Joanna Burger, Rutgers

JoAnn Burkholder, NC State

Robert Ward, Colorado State

Donald Kent, Community Watershed Fund



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Final 2006 System-wide Indicators Report Available online:

http://www.sfrestore.org/scg/documents/2006_system_wide_indicators_report.pdf

