

**Water Resources Development Act of 2006  
Water Infrastructure Team**

**FINAL BRIEFING**

**Presented By: Jim Vener  
Faculty Advisor: Dr. Steven A. Cohen**

**November 29, 2006**

# Outline

## Water Resources Development Act of 2006 (WRDA)

- What is authorized by WRDA?
- What are the environmental problems?
- What does WRDA do?
- How will it be implemented?
  - How long will it take?
  - Who will do the work?
  - How much will it cost?





# What Are The Environmental Problems?

## Army Corps Civil Works projects

- Old focus often at the expense of the environment
- Dual purpose planning
- Mitigates environmental concerns
  - Minimize risks to human health
  - Improve flood control
  - Habitat creation and restoration

*"Seek balance and synergy among human development activities and natural systems..."*

*(Corps Environmental Operating Principles, 2002)*

# What Will WRDA Do In The UMR-IWW?

## Ecosystem restoration

- \$1.58 billion over 15 years
- Mitigate adverse effects of navigation projects
- Prioritization is based on the greatest benefit to the nation
- Framework for program management
- Dedicated planning unit



# What Is Our General Program Design?

## First-year UMR-IWW program

- Corps Standard Operating Procedures
- Investigation, construction, and operations and maintenance
  - Preconstruction, engineering, and design
- Design a 15-year management program
  - 100% planning
  - Adaptive management
  - Peer review



# How Will The Act Be Implemented In The UMR-IWW?

- Ecosystem restoration projects
  - Dam water level management
  - Dredge backwaters
  - Fish ladder construction
  - Improve hydrologic connectivity
  - Island building
  - Wetlands restoration
- Channel constraint



# How Long Will It Take?

## Quarter 1

- Selection of Planning and Design Team

## Quarter 2

- Selection of Project Manager, Technical Team, and Contractor
- Project Kickoff
- Planning

## Quarter 3

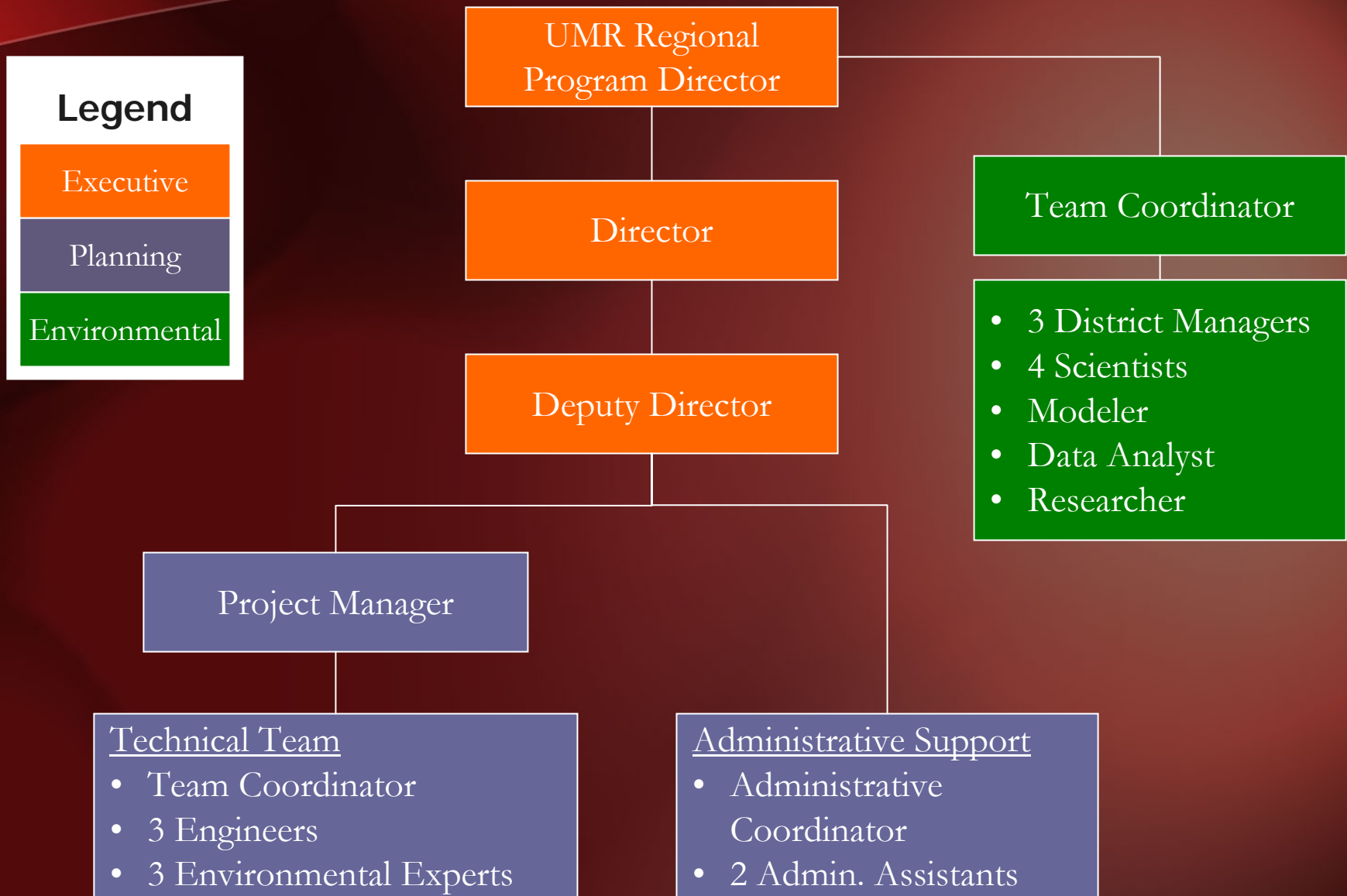
- Planning
- Work Orders
- Permits
- Peer review Midterm Report

## Quarter 4

- Planning
- Work Orders
- Final Workplan



# Who Will Do The Work?



# How Much Will The First-Year Cost?

- 1st year cost: \$4 million federally funded
- 15 years funded: \$1.5 billion
- Performance management
  - Report cards and quarterly meetings
- Efficient investment
  - Solid framework for program management
  - Builds environmental planning capacity

Item	Cost [Millions]	% Budget
Personnel Services (including special planning projects)	\$3.02	75%
Other Than Personnel Services	\$0.57	13%
Overhead Allocation	\$0.07	2%
Contingency	\$0.35	8%
Total	\$4.01	100%



# Conclusions

- Revolutionary change: a new environmental focus
- Builds environmental capacity
- Less money needed for future mitigation
- First-year implementation will be 100% planning and culminate in a final workplan for program management
- New mission focus addresses risks to human health, flood control, and habitat degradation



Special Thanks to Faculty Advisor Dr. Steven A. Cohen  
and the entire Water Infrastructure Team

Leanna Dakik

Julia Farber

Kumiko Fujita

Billy Gridley

Casey Hogan

Alison Lechowicz

Becky Myers

Liam Strain

Our Best Wishes to Sami and the Qadan Family

Are there any questions?

