

# National Shoreline Erosion Control Demonstration and Development Program



US Army Corps  
of Engineers®

*... demonstrating innovative coastal shoreline protection methods with an emphasis on evaluation of nontraditional approaches to prevent coastal erosion and improve shoreline sediment retention.*



*National Shoreline Erosion Control  
Development and Demonstration Program  
Annual Workshop*

*August 4, 2005  
St. Louis, MO*



# Workshop Objectives

## *Discuss*

- *Program authority modifications*
- *Tech transfer*
- *Project status & issues*
- *Future directions for SPP R&D*

*Not a program review!*

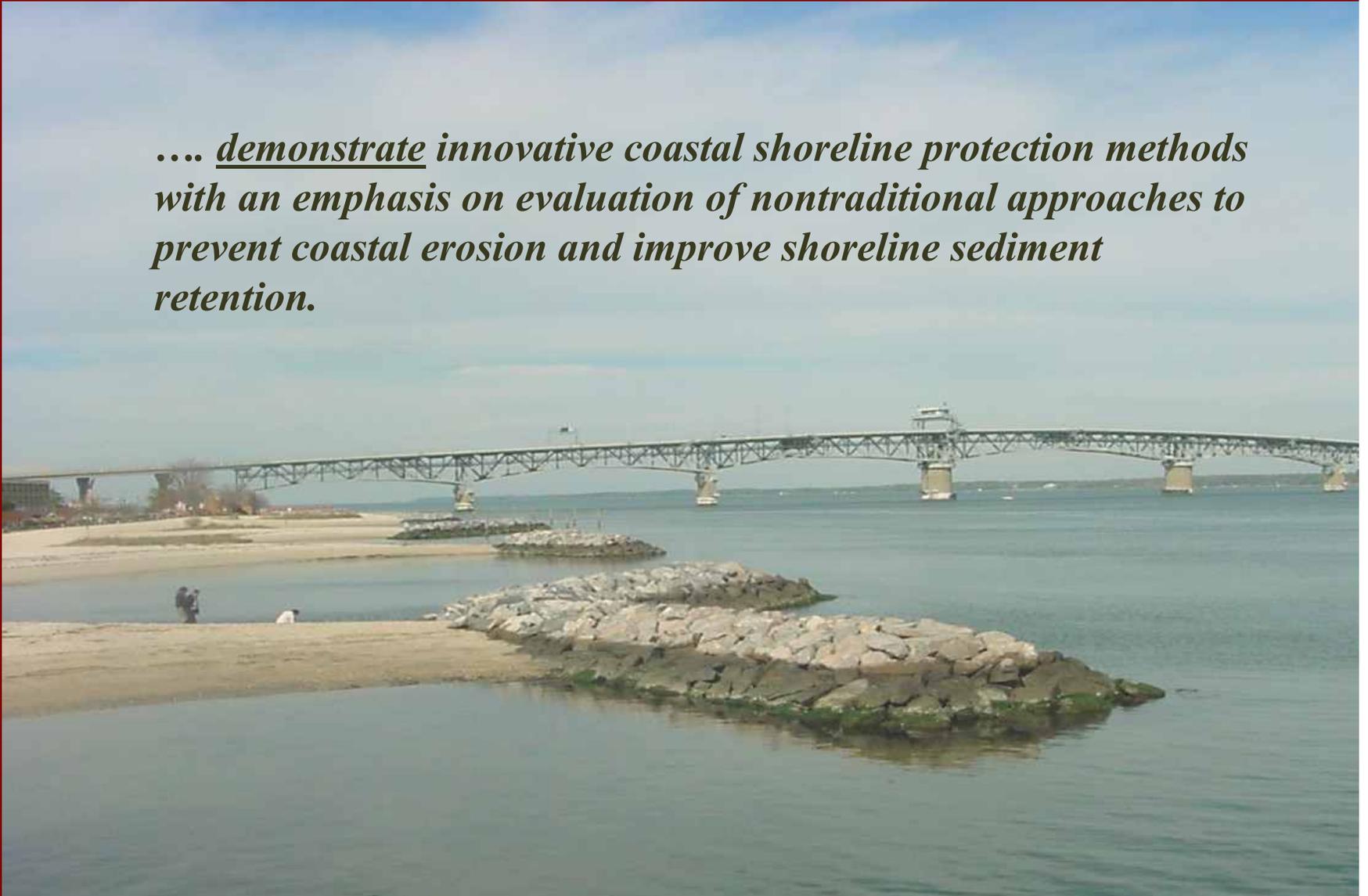


## R&D Focus

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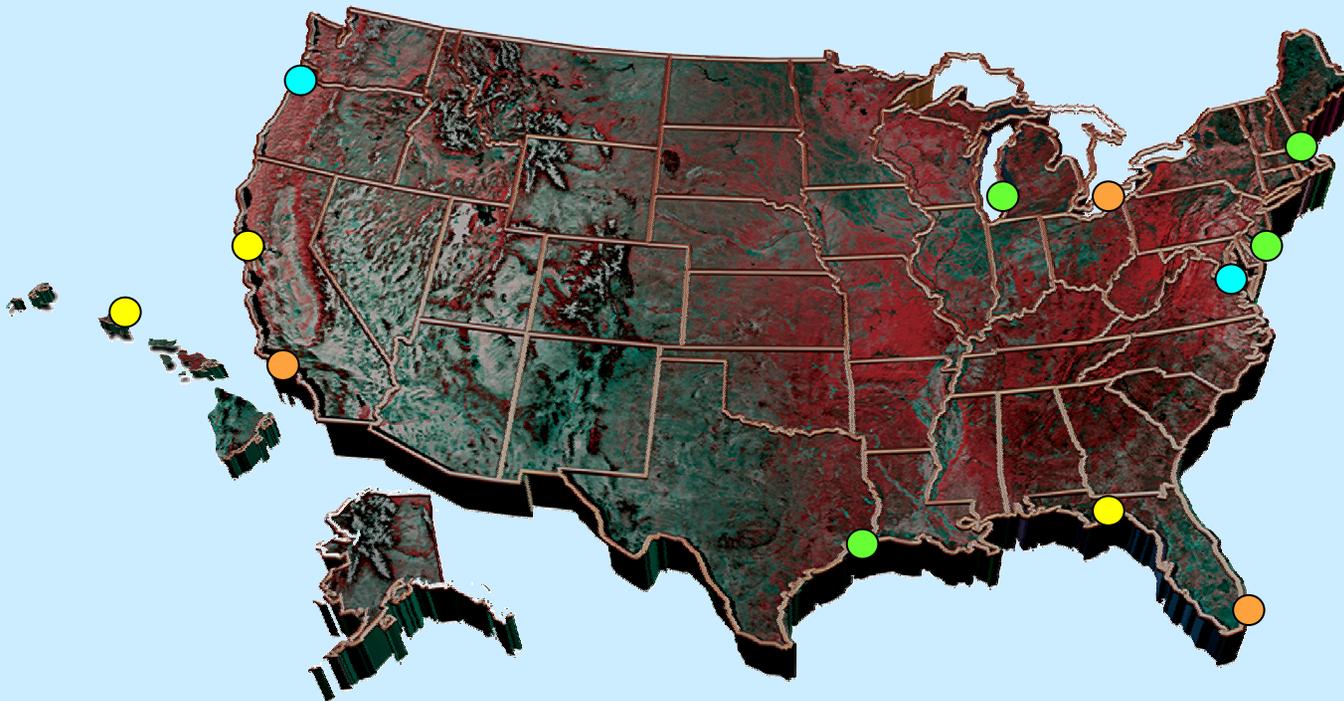
*.... demonstrate innovative coastal shoreline protection methods with an emphasis on evaluation of nontraditional approaches to prevent coastal erosion and improve shoreline sediment retention.*



# Project Locations

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*.... developed in partnership with USACE Districts, Local & State Governments, Academia and Private Industry.*



# Project Evaluation

*Performance Statement  
- Quantifiable metrics*

*Shore protection technologies evaluated for  
functional performance,  
stability,  
lifecycle cost,  
environmental compliance,  
value added over traditional methods*



# Morphologic Settings

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# Morphologic Settings

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# Technologies

*Thermoplastic/Composites*

*Geotextiles*

*Low-Volume Beach Nourishment*

*Groundwater Manipulation*

*Narrow-Crested Pre-cast Concrete Sill*

*Wide Crested Pre-cast Concrete BW*

*Rubble Mound Headland/Sill/Tuned BW*

*Wide-crested BW Matrix*

*Wave Rotating Structure*

*Branch-Box BW*

*Dynamic/Cobble Revetment*

*Dune Fortification*



# Benefit

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*Potential for improved shore protection project performance*

*Improved Design and Regulatory Guidance*

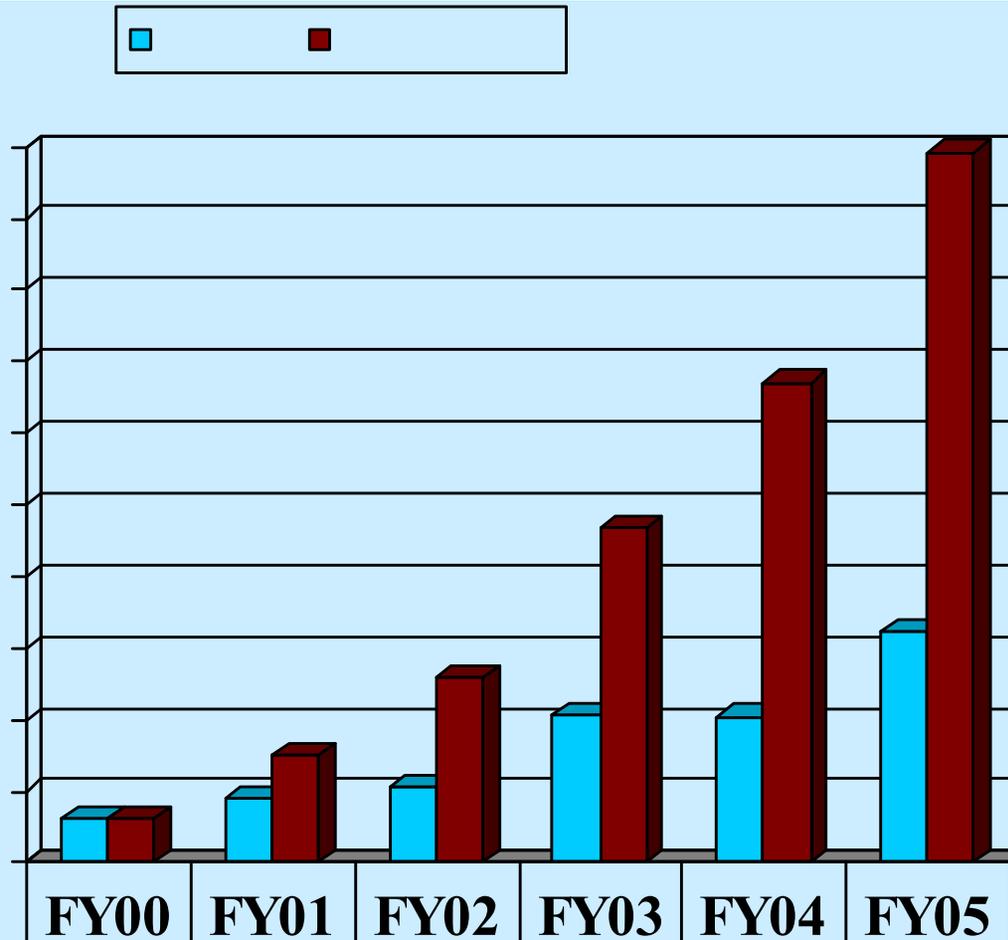
*Administration-Supported Shore Protection Authority*



# Budget Summary

SECTION

227



	FY00	FY01	FY02	FY03	FY04	FY05
■ Annual	1250	1785	2133	4158	4084	6441
■ Cumulative	1250	3035	5168	9326	13411	19852



Estimated 06-09 Capability: \$10M+

## Action Item

### FY'06 – '09 Project Budget

- Assume continued program authority
- Capability by FY
- Estimated time and cost schedule
- Include Lab/District activities
- Suspense: Aug 31
- Submit to PM thru Lab POC
- Assume 5-year monitoring/evaluation



## Action Item

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ASBPA 2005 Conference and Annual Meeting  
10-12 October 2005  
San Francisco, CA

- Resubmittal of 2004 Section 227 abstracts
- 10+ presentations
- No special session
- Possible program meeting to discuss new authority and '06 plans

**Register before 09 September!**



# Authority Modifications

## Duration:

108<sup>th</sup>: 10 yrs (\$10M additional)

109<sup>th</sup>: Indefinitely (up to \$10M annual, Section 103)

## Emphasis:

- Improve design and formulation tools
- Improve project performance
- Improve lifecycle cost
- Native vegetation

## Sites:

- Broader than existing law and consistent with Federal beach nourishment standards



# Authority Modifications

## Responsibility:

- Acting through Chief of Engineers

## Report:

- Annual to Senate Cmte on Environmental and Public Works
- Annual to House Cmte on Transportation and Infrastructure
- 31 December suspense

## Cost Sharing/O&M:

- 108<sup>th</sup>: Cost share w/ Partner for construction/monitoring
- 109<sup>th</sup>: Cost share as 108<sup>th</sup>, Cost share removal, O&M not borne by Program

