

Funding Coastal Resiliency

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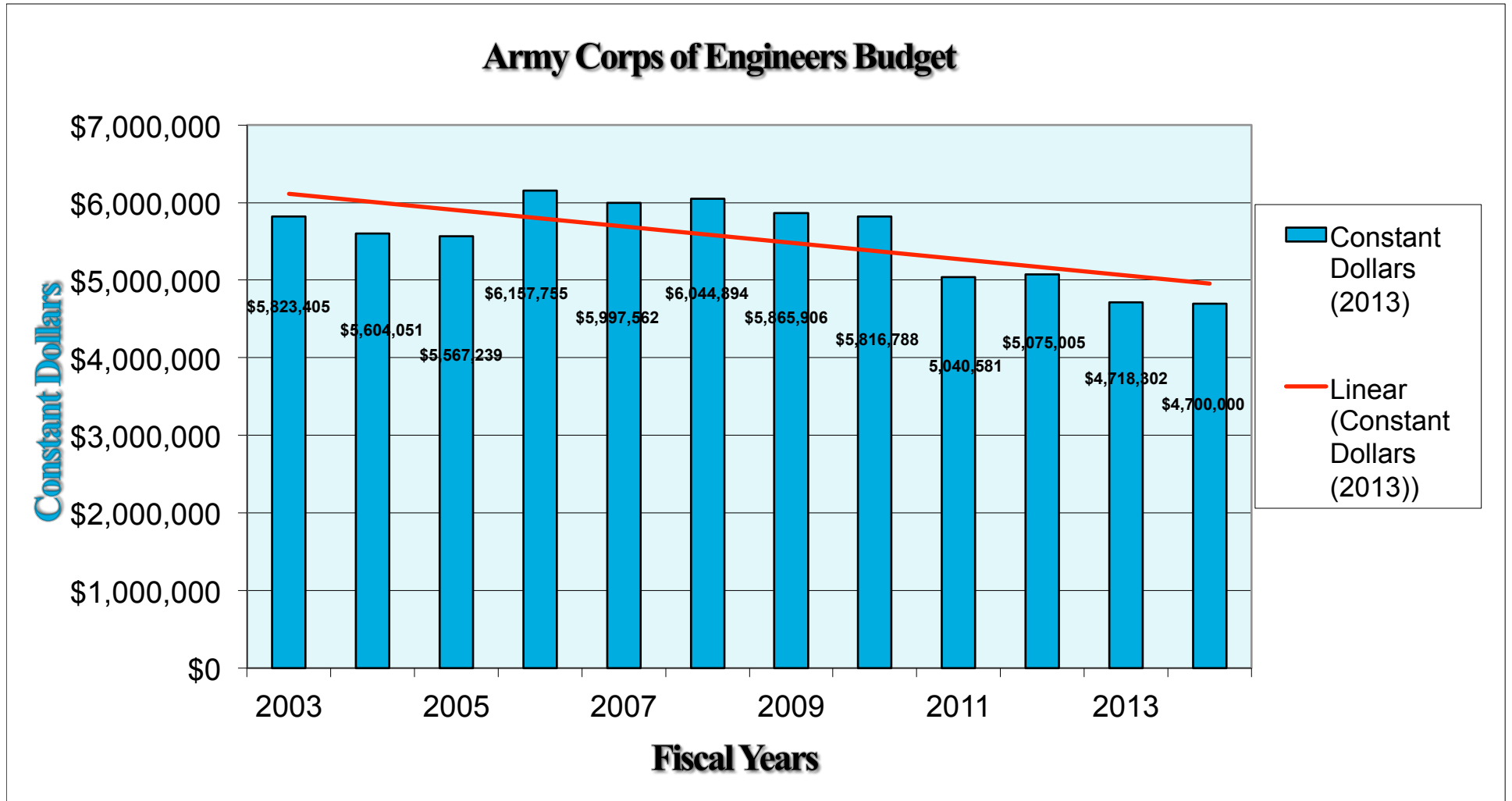
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Overview

- Federal Financing Trends
 - Effects of declining federal budget on coastal projects
- Available Policy Changes
 - Regionality – a systems approach beyond budgeting
 - Alternative financing to supplement gov't funding
- Partnerships
 - Regional alliances

Federal Financing Trends



USACE Funding Gap

- \$1 billion annual shortfall to maintain minimally acceptable level
- Additional \$1 billion shortfall precluding additional planning and construction

CSPI Estimated Future Federal Costs					
FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	Total
\$1,818,101,000	\$1,842,843,000	\$1,829,086,000	\$1,698,823,000	\$1,671,032,000	\$8,859,884,000



Policy Alternatives

- Reducing the Corps' operating costs
 - Regionality – a systems approach
- Increasing funds for water resources
 - Alternative financing
 - Public Private Partnerships
 - Value capture approach

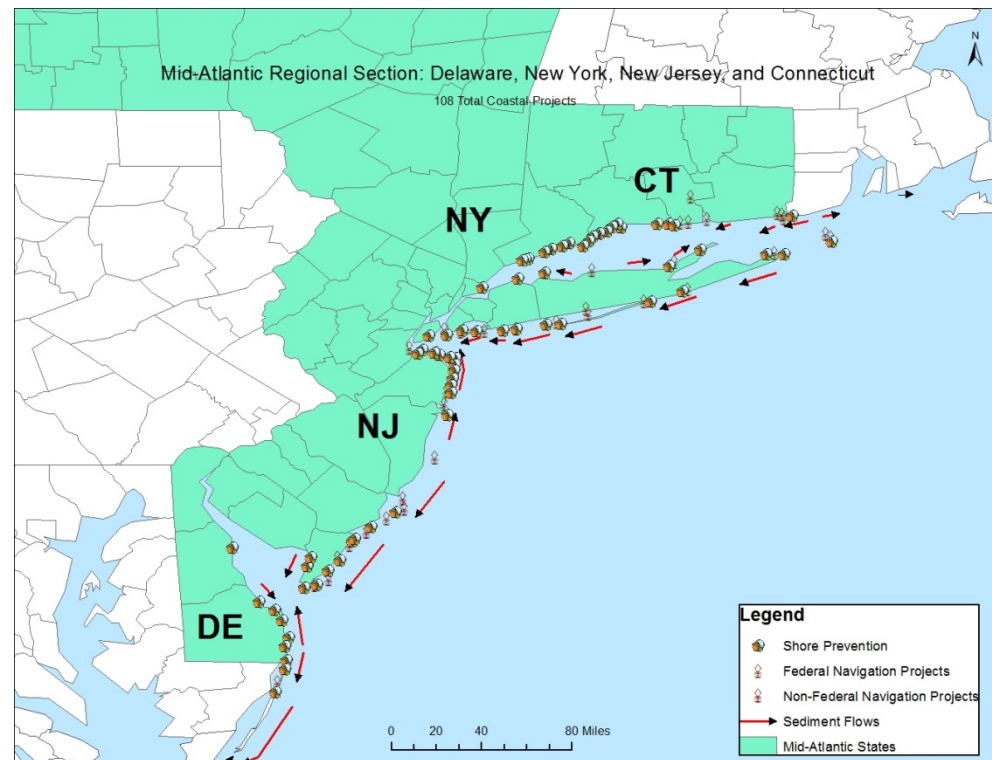
Regionality

- Coordination of dredge mobilizations
- Beneficial use of dredged material
- Interagency coordination
- CSPI prioritization – watershed analysis



Regionality

- Mobilization Costs
 - Coordinating dredges



Regionality Case Study





Regional Sediment Management

- Beneficial use of dredged materials
 - Sediment is a resource
- RSM execution
 - Create inventory of sediment resources
 - Develop regional sediment budget
 - Development of a Dredged Material Placement Policy (DMPP) or Beneficial Use of Dredged Material Program (BUDMAP)
 - Insert data into GIS database

Regional Sediment Management Case Study

- Port of Oakland 50 Foot Deepening Project- 12 million cubic yards
 - Middle Harbor Enhancement Area- 6 million cubic yards
 - Hamilton Wetland Restoration- 2.5 million cubic yards
 - Montezuma Wetland Restoration- 3 million cubic yards



<http://www.gba-inc.com/projects/oakland-middle-harbor.html>



<http://www.spn.usace.army.mil/Missions/ProjectsandPrograms/ProjectsbyCategory/ProjectsforEcosystemRestoration/HamiltonAirfieldWetlandRestoration.aspx>



<http://www.dixonmarineservices.com/montezuma-wetlands-restoration.html>



Interagency Coordination

- Consolidate regulatory requirements
 - Environmental Stipulations
 - Permitting
- Share information
- Incorporation of stakeholders interests

Interagency Coordination Case Study

- Folsom Dam Auxiliary Spillway
 - Coordination between the Corps and the BOR.
 - Reduced project cost by \$1 billion.
 - Cut 7 years off of project implementation



<http://www.army.mil/media/281096>



CSPI Prioritization - Watershed Analysis

- Integrated water resource management
- Analyze resource need across systems and watersheds
- Alteration of project prioritization
 - Project reliability
 - Extent of resource risk
 - Relationship between projects

CSPI Prioritization - Watershed Analysis Case Study

- Fenwick Island- Hurricane Sandy
 - Beach project performed as expected
 - Flooding mostly occurred from bay side

Before



After



[http://en.wikipedia.org/wiki/
File:Ocean City Maryland aerial view_north.jpg](http://en.wikipedia.org/wiki/File:Ocean_City_Maryland_aerial_view_north.jpg)

[http://www.baynews9.com/content/news/baynews9/news/
article.html/content/news/articles/bn9/2012/10/30/
superstorm_sandy_sla.html](http://www.baynews9.com/content/news/baynews9/news/article.html/content/news/articles/bn9/2012/10/30/superstorm_sandy_sla.html)

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Financing Policy Alternatives

- Value Capture
 - National Flood Insurance Tax Increment Financing District
 - Property Tax Value Capture
 - Sales Revenue Capture
 - House Sale TIF
- Public Private Partnerships
 - Port Privatization
 - Asset Allocation



Impediments to Policy Change

- Crossing business lines
- Organizational culture
 - Districts and Divisions reluctant to relinquish power
 - Congressional mandates not forthcoming
- OMB intransigence
- Us



New Partnerships

- Regional Alliance
 - Collective of state & government water resource agencies
 - Corps & federal resource agencies
 - Key stakeholders
 - NGOs
 - Private for profits



WEST COAST GOVERNORS
ALLIANCE on OCEAN HEALTH
CALIFORNIA OREGON WASHINGTON



**Governors South Atlantic
Alliance**



US Army Corps of Engineers



Coastal Zone Management (CZM)



CZMA





Regional Alliance

- Exchange Information
- Center of Regional Expertise
- Influence the watershed budgeting process
- Develop the details of a regional systems approach
- Advocate for water resources policies
- Implement financing alternatives



Regional Alliances Affect Change

- Financial clout
 - Contributing funds
- Political clout
- Knowledgeable about water resources and the Corps
 - Center of Regional Expertise



Incentives to Cooperate

- Center of Expertise
- Common interests
 - Vulnerability
 - Economic
 - Data
- Collaborative action urgently needed
 - Budget limits and demands at the federal level
 - Watershed budgeting
 - Comprehensive Study



Questions?



Thank You

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