

# USACE Civil Works Program: Challenges and Opportunities

California Marine Affairs &  
Navigation Conference

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# Mission Overview





# USACE Priorities

➤ *Support the Warfighter*



➤ *Transform Civil Works*



➤ *Respond to Disasters*

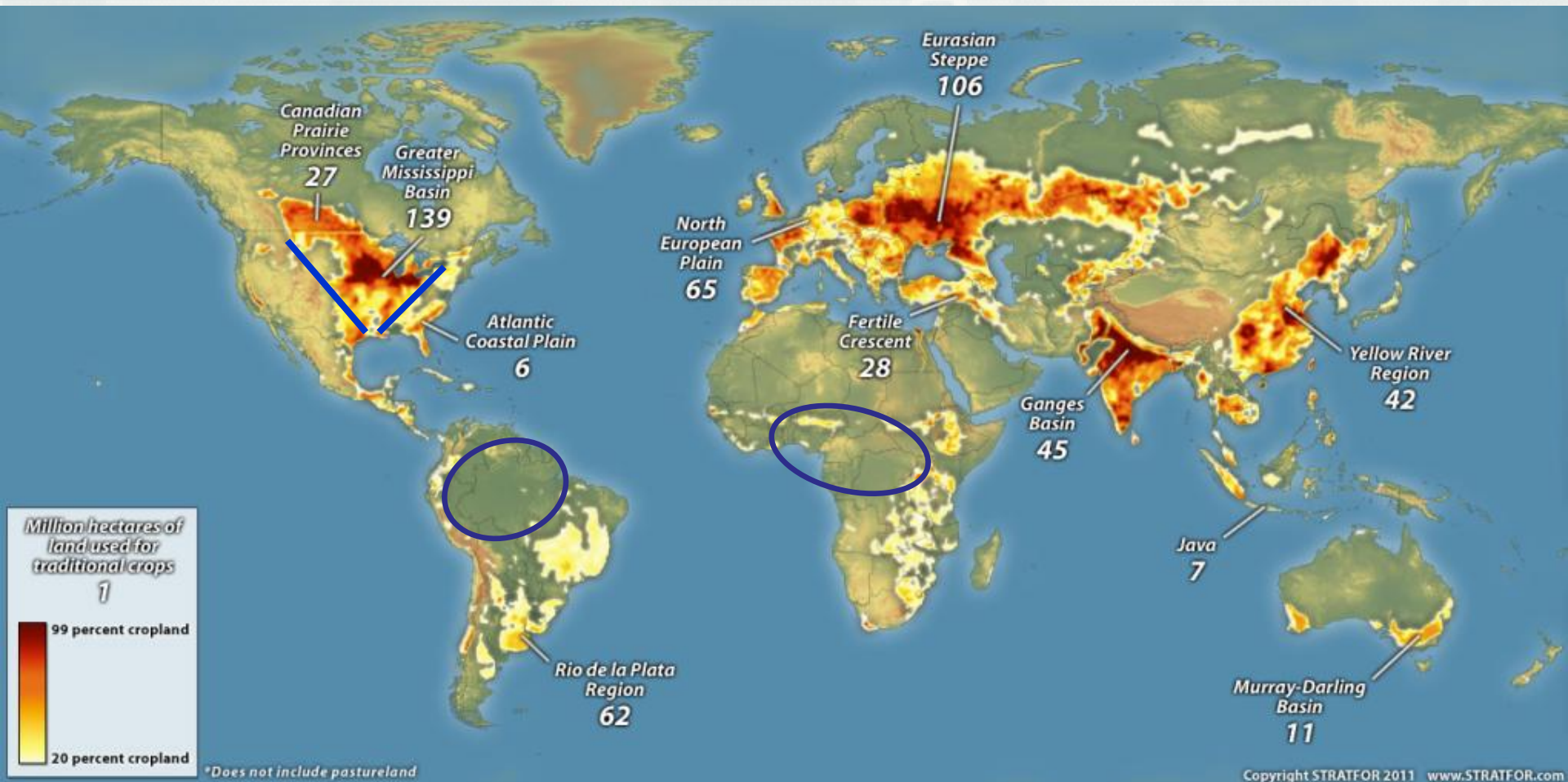


➤ *Prepare for Tomorrow*



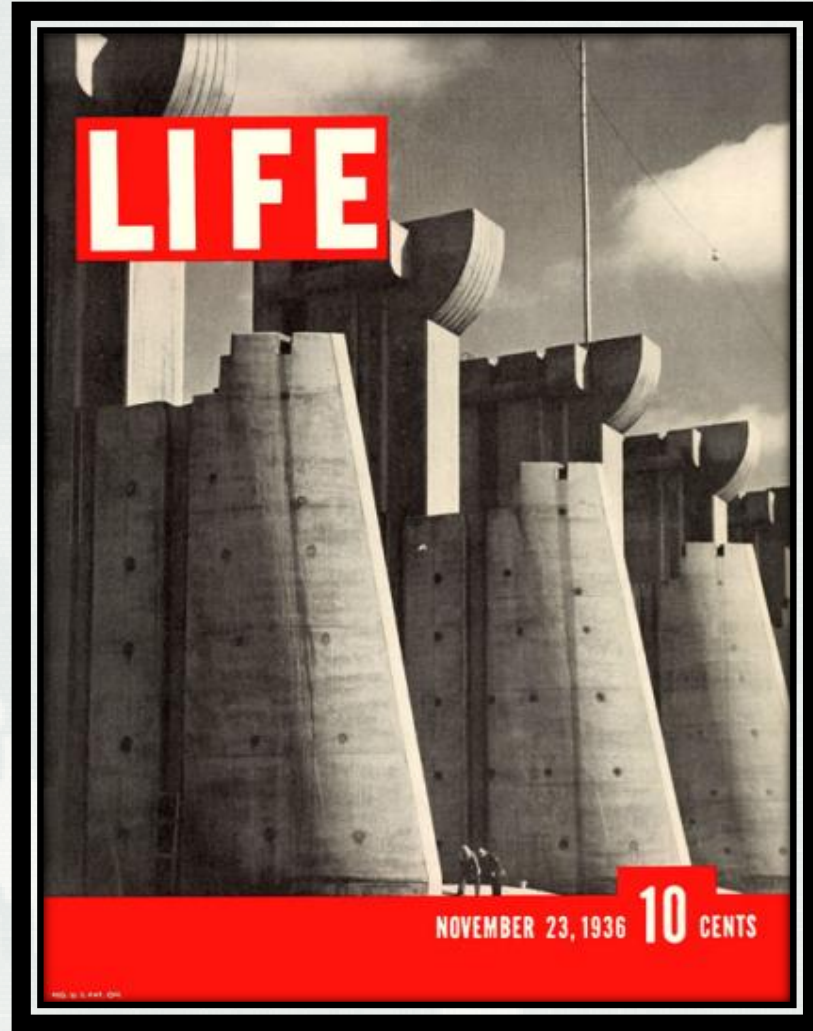
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# Global Agricultural Zones and the Basis for US Greatness



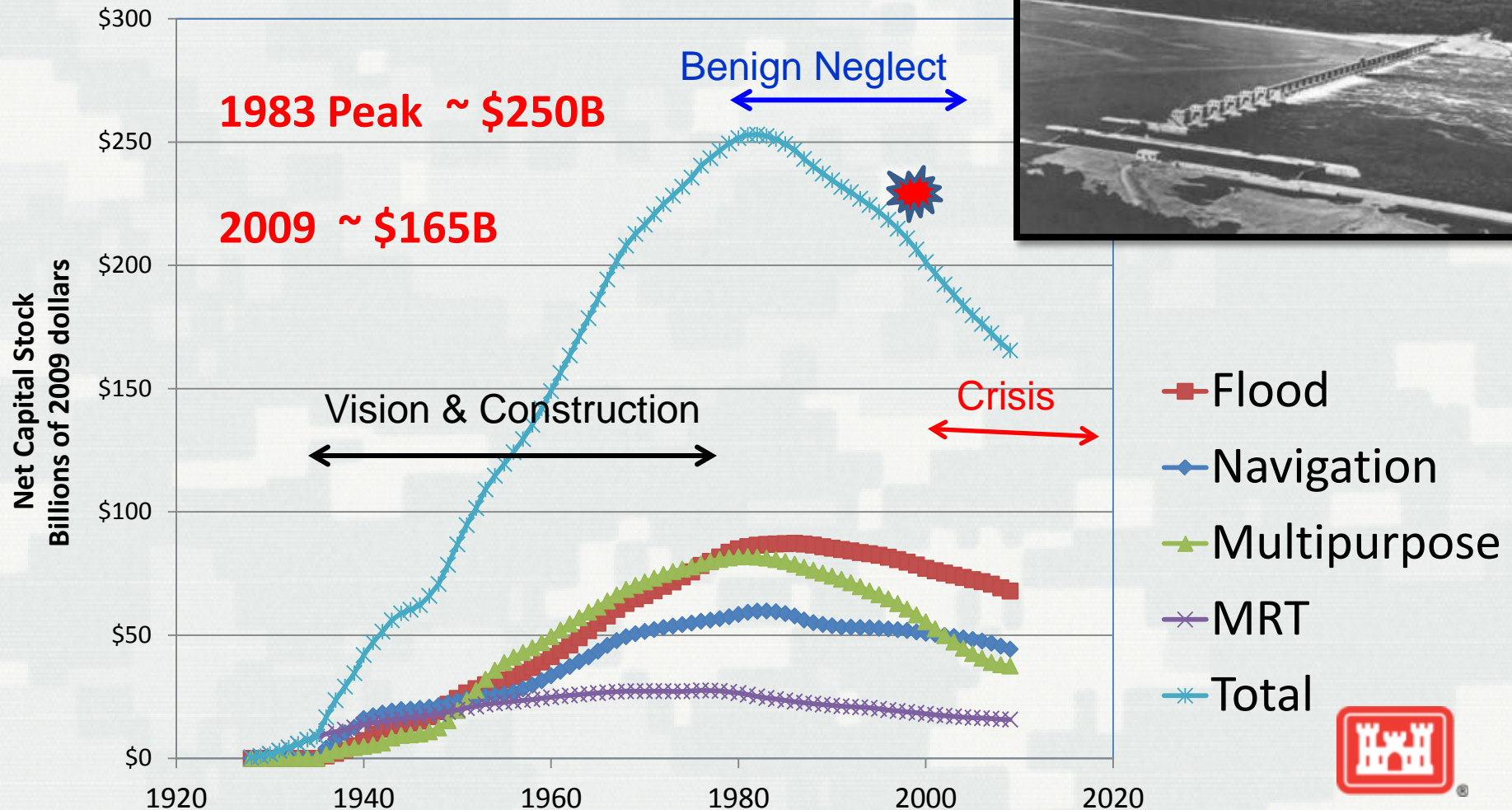


# The 20<sup>th</sup> Century “Golden Age” of Infrastructure Construction



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# Net Capital Stock Estimates of Civil Works Projects, 1928-2009 (in 2009 \$)



- Flood
- Navigation
- Multipurpose
- MRT
- Total



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# Our Nation's Infrastructure GPA:

**D+**

**Roads**



**Railways**



**Runways**



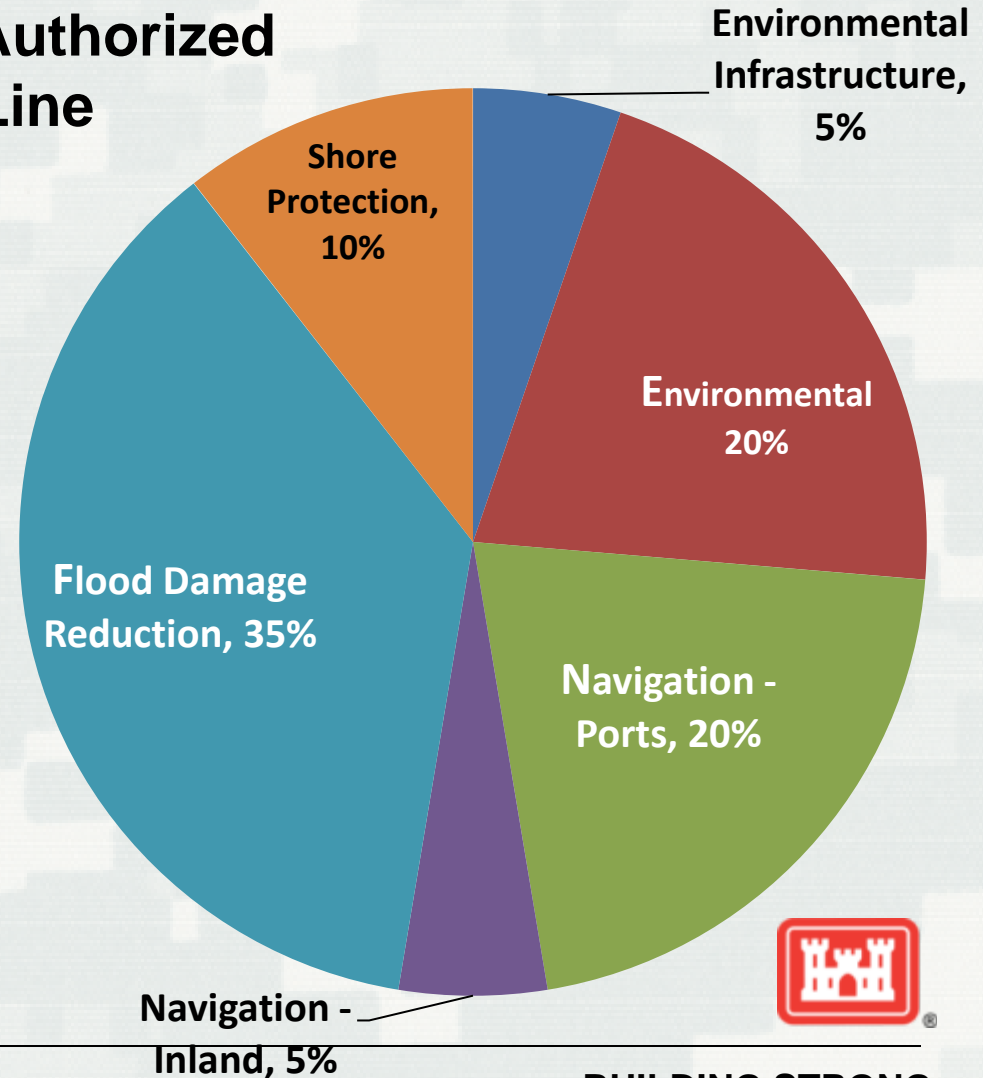
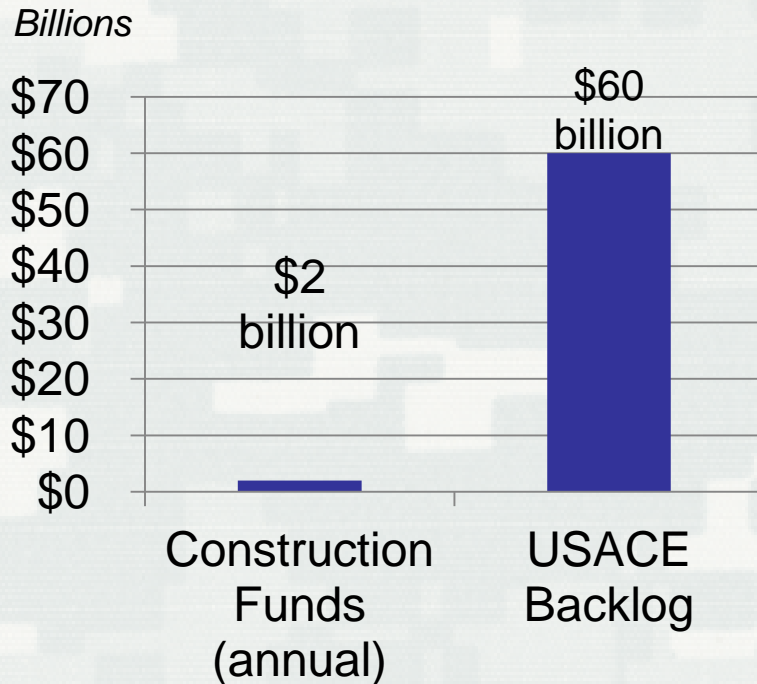
**Rivers**



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# USACE Civil Works Construction Backlog

## Backlog of Congressionally Authorized Projects by Business Line

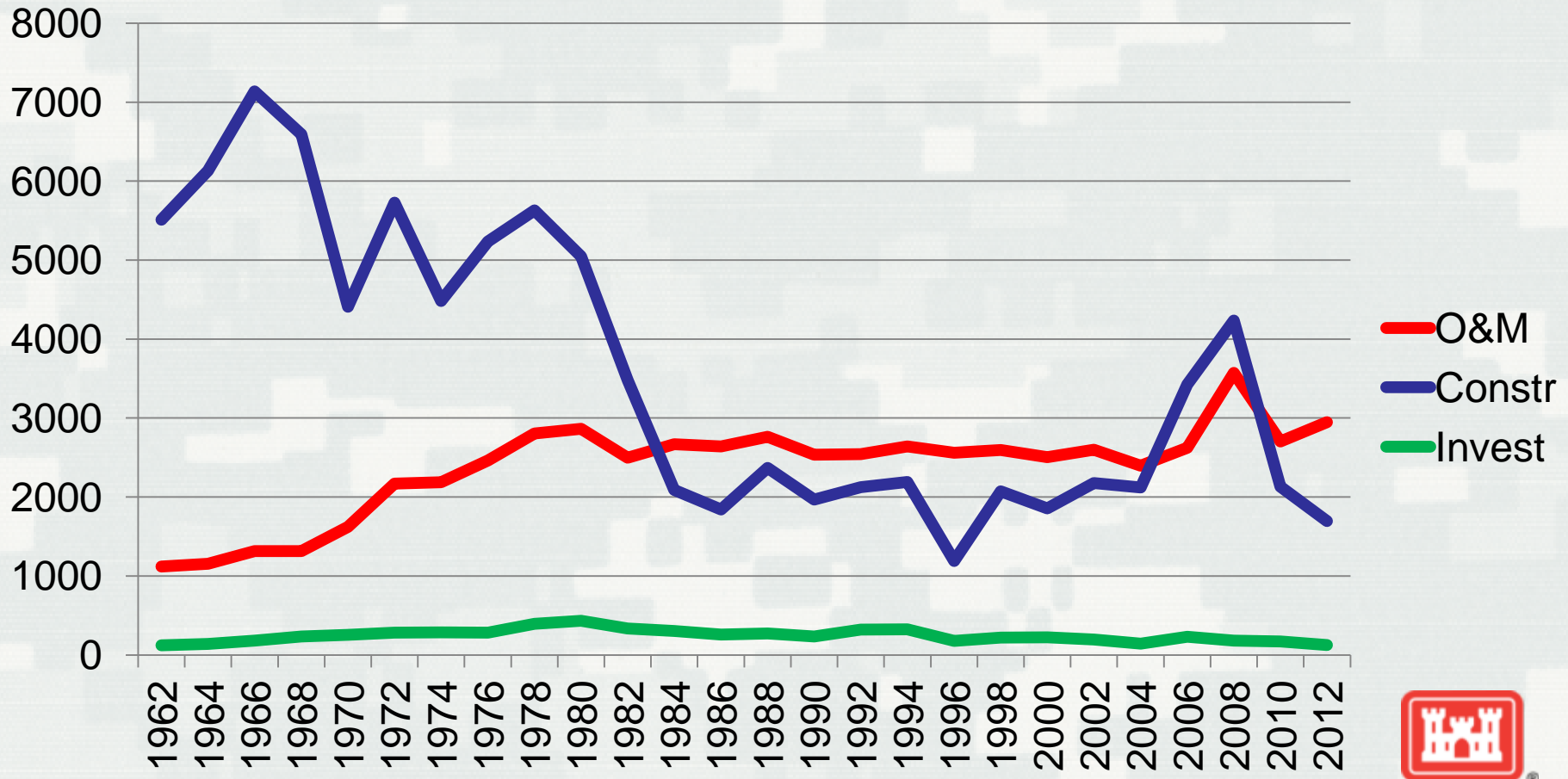


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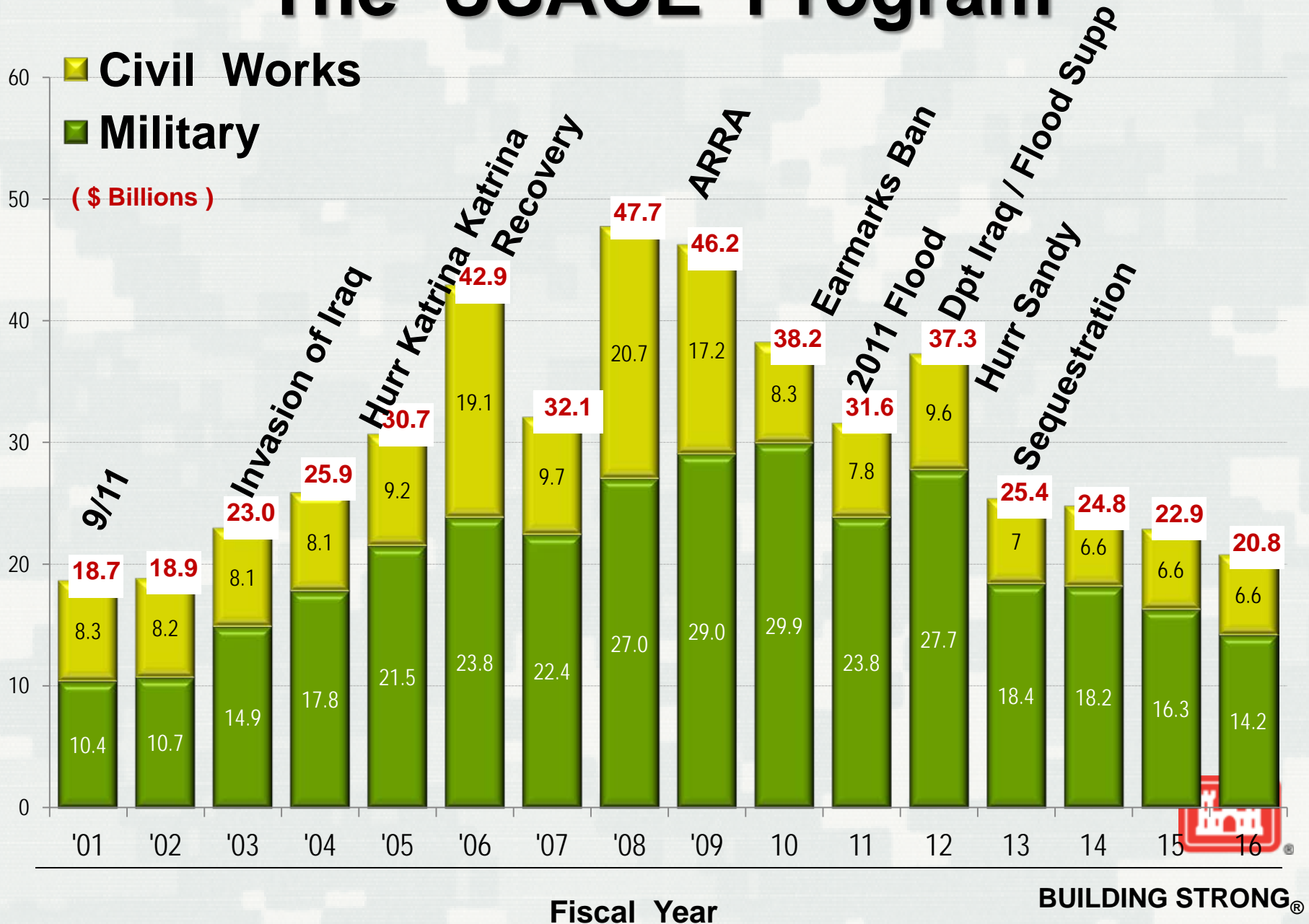
# Long Term Civil Works Funding Trends

Appropriation (\$Million in 2012 \$)



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# The USACE Program





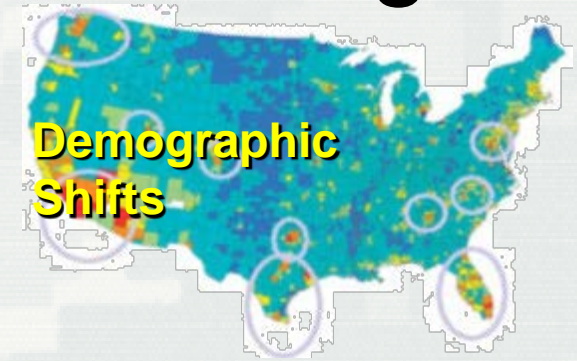
# Global Navigation & Inland Waterway Investments

- **China** plans to invest **\$32 Billion** in Yangtze River port & navigation development, 2011-15
- **Brazil** is investing **\$27 Billion** in ports over the next 4-5 years
- The **Army Corps** of Engineers' annual Navigation budget approximates **\$2 Billion**

# National Water Resource Challenges

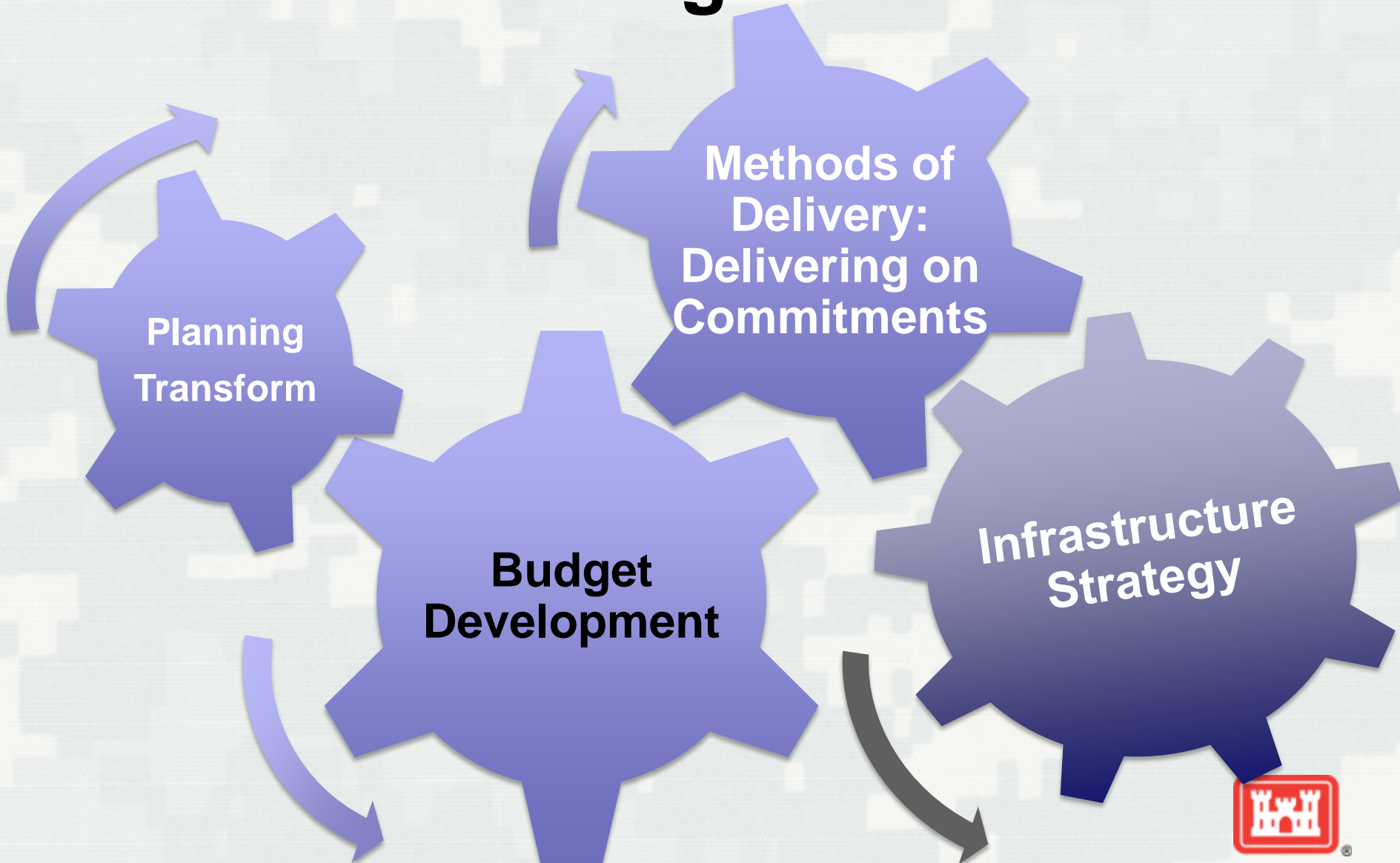


**Governance**  
.....  
**Federal Budget**  
.....  
**Legislative Changes**





# Transforming Civil Works



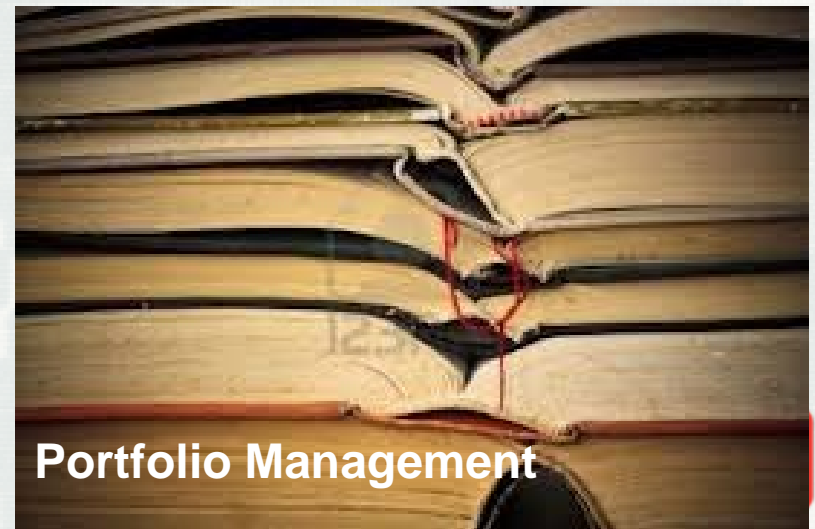
# Planning Modernization

Report of the  
chief of  
engineers U.S.  
army

United States  
Army Corps of  
Engineers

- Determine Federal Interest
- Authorization Backlog
- Follow-on Work

Chief's  
Reports



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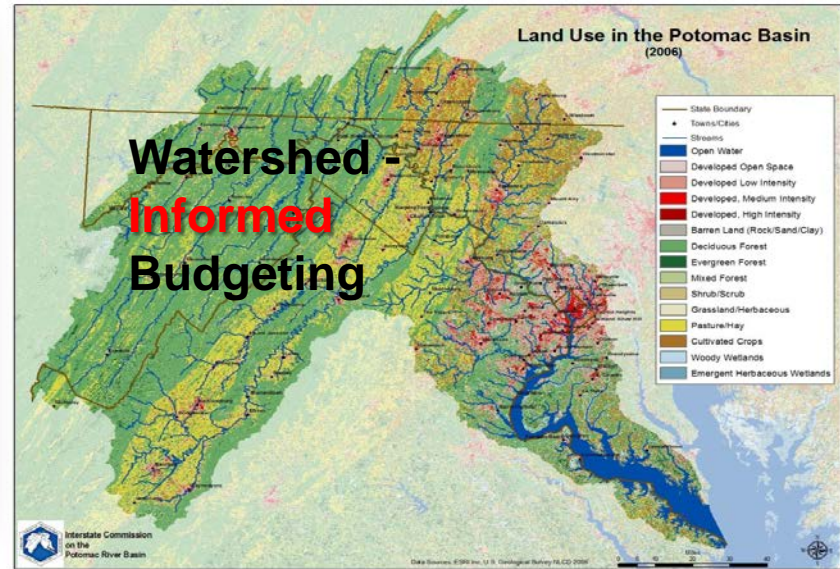


# Budget Development

## Engaging Stakeholders



## Watershed - Informed Budgeting



## Smart Investments



## Management Controls



# Methods of Delivery → *Deliver on Commitments*





# Infrastructure Strategy

## Asset Management

Replacement Value=  
**\$250 B**

## Life Cycle Management



Kentucky River Lock #2, in service since 1839

- Accelerate Execution
- Pilots
- Obstacles
- Authorities
- Re-Invent Operations



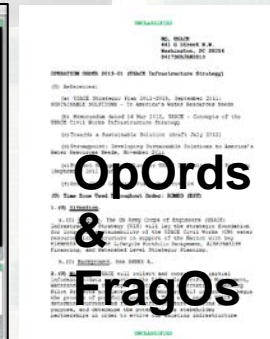
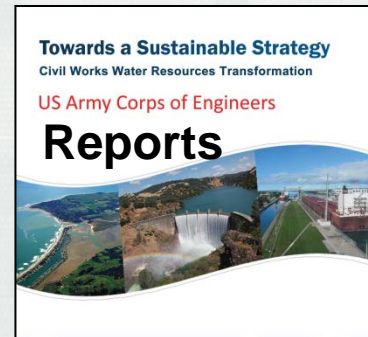
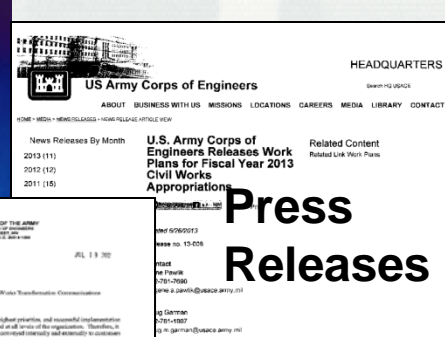
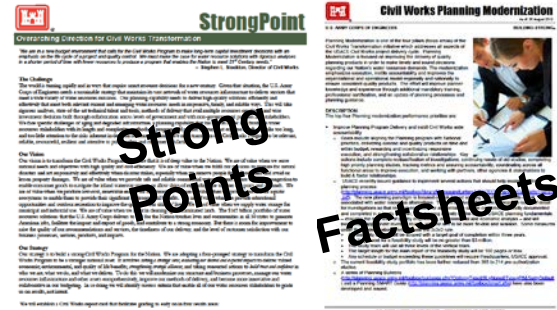


# Environmental Restoration & Sustainability Program



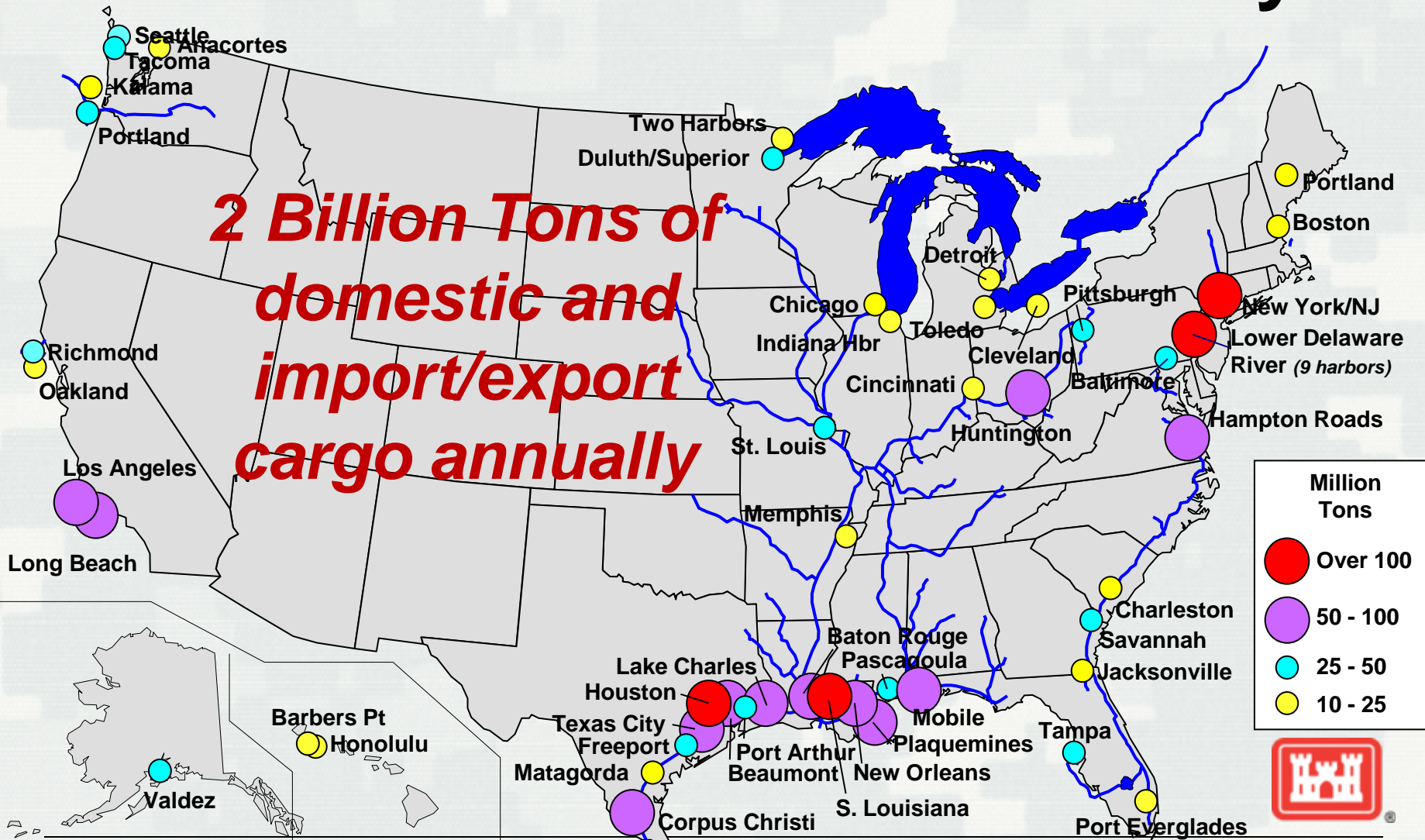


# Communicating the Strategy



# U.S. Ports and Inland Waterways: Vital to our National Economy

***2 Billion Tons of  
domestic and  
import/export  
cargo annually***



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# ***“America’s ailing ports invisible amid the country’s failing infrastructure”***

- Washington Post, 13 Sep 2012

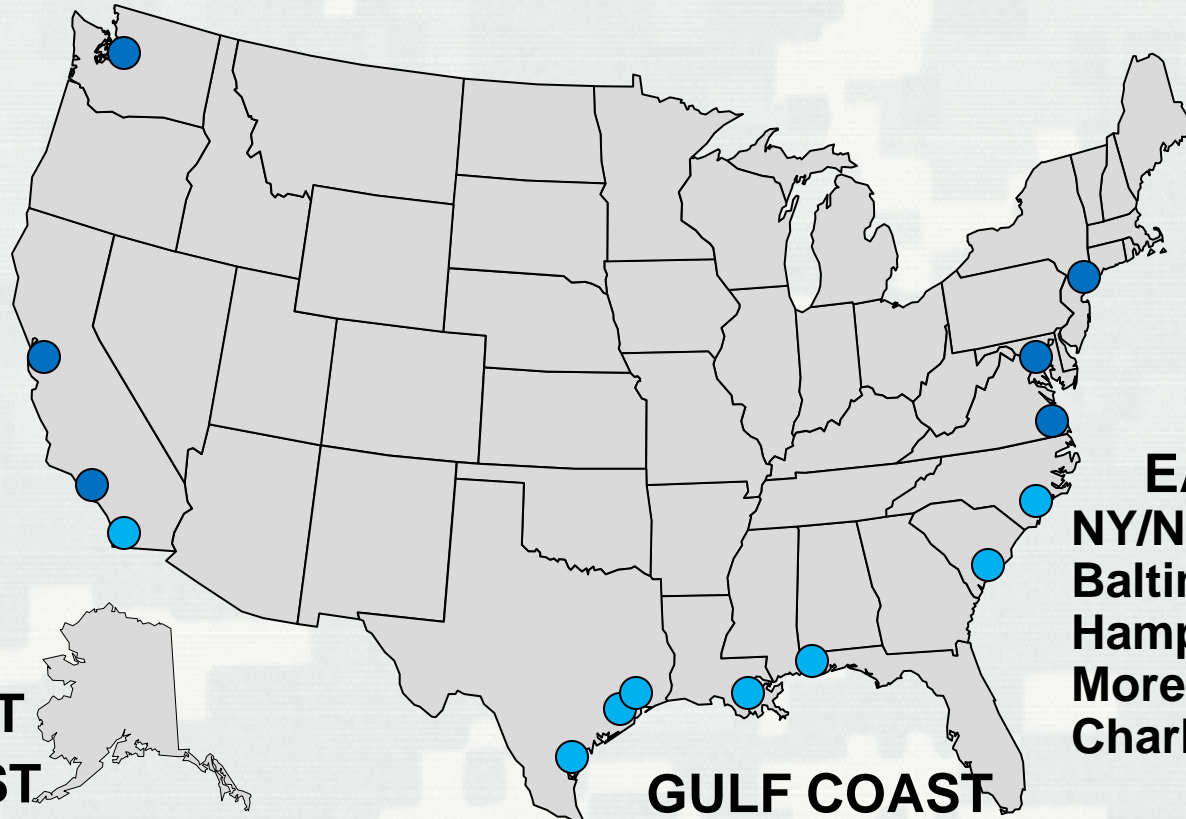
ASCE estimates that it will require an investment of **\$30 billion** – twice as much as the Nation is spending today– to keep America competitive in a global environment.

## **What’s at risk?**

- \$270 billion in U.S. exports
- \$697 billion in GDP
- 738,000 jobs annually
- \$872 billion in personal income.

# Ready for the Panama Canal?

## U.S. Harbors 45' or Greater



### WEST COAST

Seattle/Tacoma (>50')  
Oakland (50')  
LA/Long Beach (>50')  
San Diego (47')

### GULF COAST

Mobile, AL  
New Orleans  
Houston/Galveston/Texas City  
Corpus Christi  
Freeport, TX

### EAST COAST

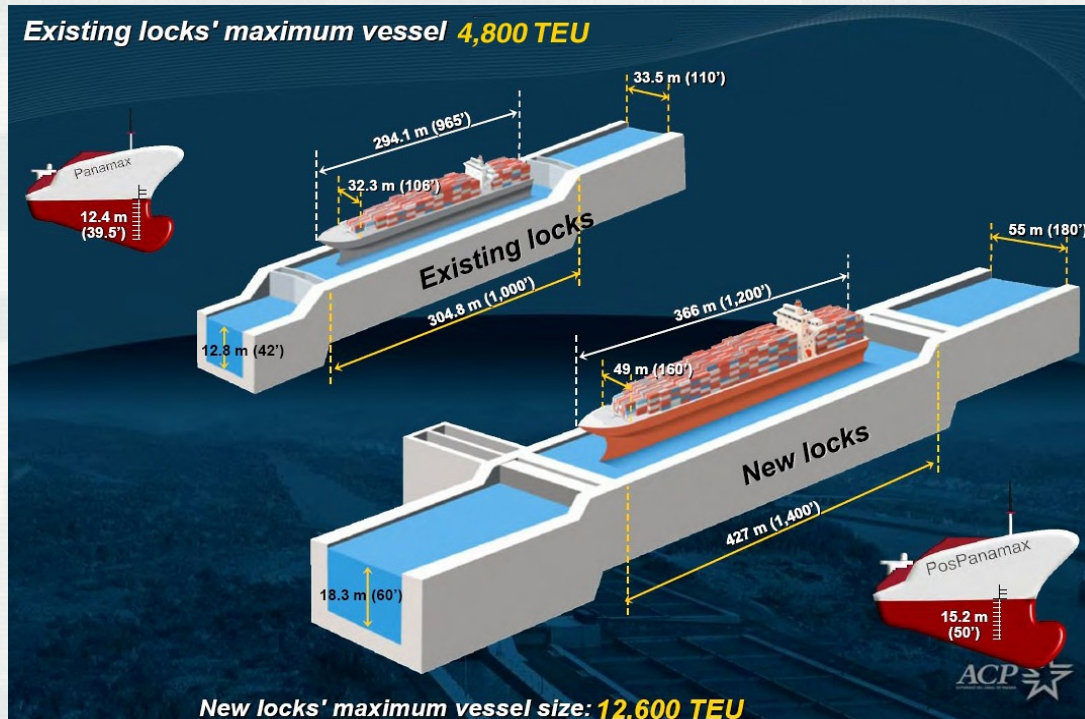
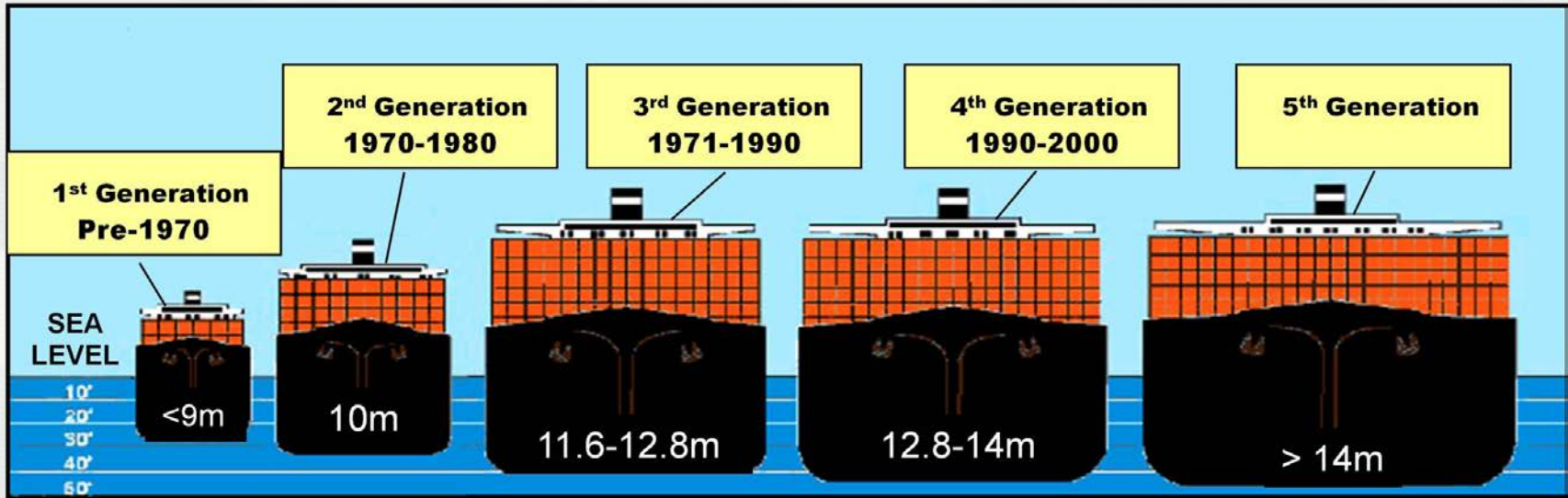
NY/NJ (50' underway)  
Baltimore (50')  
Hampton Roads (50')  
Morehead City, NC  
Charleston, SC



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# We Can't Wait



Advance infrastructure projects at 5 East Coast ports:

- NY / NJ
- Charleston
- Savannah
- Jacksonville
- Miami



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# Harbor Deepening Challenges

- **Study Process:** Difficult and lengthy from study to authorization
- **Funding:** Federal appropriation process uncertainties
- **Dredging:** Escalating costs, placement, environmental mitigation
- **Handling Facilities and Space:** Need expanded cargo handling facilities and improved intermodal connections



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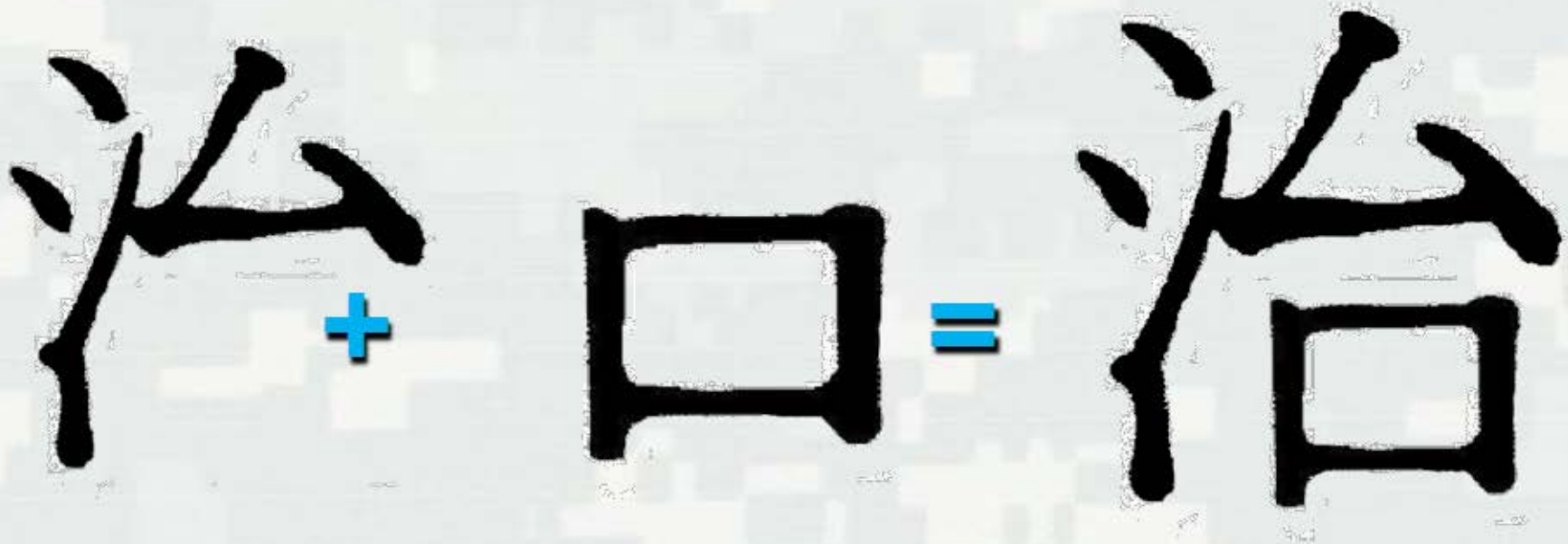


# What Can You Do?

- *Tell the Story*
- Help us *Transform Civil Works*
- *Collaborate with ALL Stakeholders* and Beneficiaries of the Civil Works Program
- *Facilitate a Watershed-Informed* approach
- Help the Nation *Prioritize* efforts, programs, and projects
- Support innovative Approaches for *Alternative Resourcing*

# Water management (and water reform) is ALWAYS political.....

Ancient Chinese Characters:



River + Dike = Political  
Order



## ***USACE Vision***

Engineering solutions for our Nation's toughest challenges.

## ***USACE Mission***

Deliver vital public and military engineering services; partnering in peace and war to strengthen our Nation's security, energize the economy and reduce risks from disasters.

***What will be OUR Legacy?***

# Questions & Discussion



US Army Corps of Engineers  
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