



# ***Sustainability & U.S. Army Corps of Engineers***

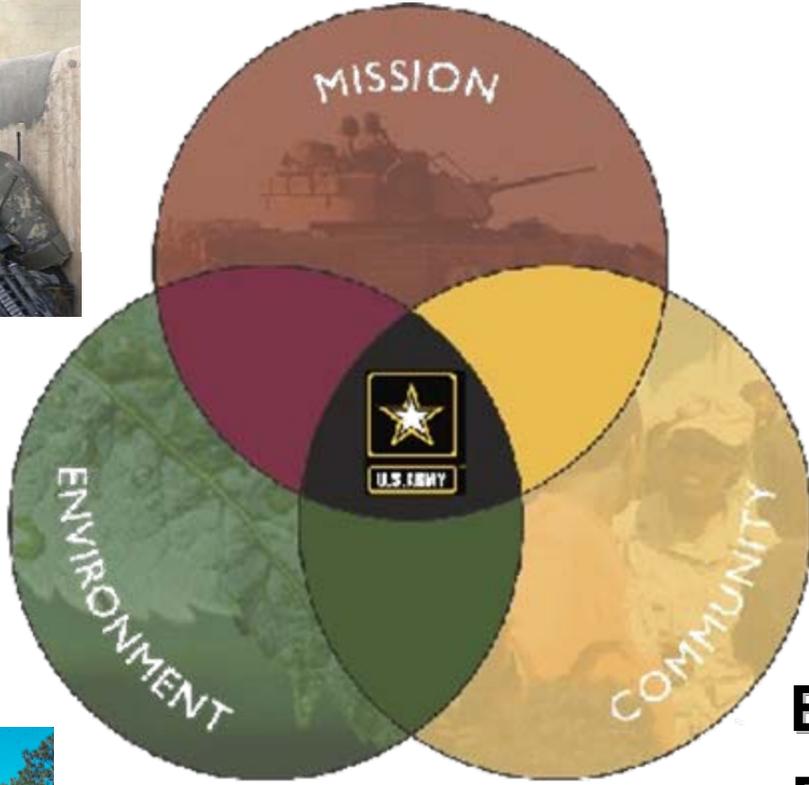
***Stacey K. Hirata, P.E.  
acting Chief  
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US Army Corps of Engineers***

***19 June 2008***



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# Triple Bottom Line - Plus



**The Army...  
Building Green,  
Buying Green,  
Going Green.**

**Army Green = Army Strong**

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# USACE's Strategic Contribution

- Partnered with DA to write Army Strategy for Environment
- Major Contributor and Tester for Army Public Involvement Tool Box  
[http://www.asaie.army.mil/Public/IE/Toolbox/tool\\_guides.html](http://www.asaie.army.mil/Public/IE/Toolbox/tool_guides.html)
- Provided Objective 10 for Draft Strategic Plan for Army Sustainability
- Established Center for the Advancement of Sustainability Innovations (CASI) at ERDC



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# ***Environmental Operating Principles***

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- Accept Responsibility
- Strive to Achieve Environmental Sustainability
- Seek Balance and Synergy
- Consider Environmental Consequences
- Understand the Environment
- Respect Other's Views
- Mitigate Cumulative Impacts



**Enduring Values for  
the 21<sup>st</sup> Century**



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# The World of the Chief of Engineers Three Roles

Chief of Engineers

 ARSTAF, Engineer

 Commander, USACE



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# Chief's Various "Hats"

## Title 10, USC

- Chief of Branch
- Economy-like authorities
- **DoD Construction Agent**

## AFAR 5141 (DA Power Procurement Officer)

- **Purchase and sale of utility services**
- Utility service transaction/contract policies, engineering, rates, & legal sufficiency determination

## General Order 3

- **ARSTAF Responsibilities:**
  - Policy for acquisition, title, granting use, and disposal of real property
  - **Engineer/facilities portions of contingency plans & base support development**
  - Prime Power Program
  - Real Estate Relocation Program
  - Commercial Utilities Program
  - **Execution of Military Construction** (Army)
- **Technical advice/assistance to ARSTAF:**
  - Force structure development
  - **Joint and Army doctrine**
  - Force modernization & mobilization
  - Intelligence
  - Contingency Planning
  - **Facilities standards**
  - **Research**
- **DoD Executive Agent:**
  - Defense National Relocation Program

## AR 10-87

- Manage/execute engineering, construction, & real estate programs for Army
- Manage/execute **installation support** programs
- Maintain capability to respond to national security & domestic emergencies
- Perform non-system **R&D**
- Develop technology to design/construct space facilities
- **Manage/execute HTRW clean-up programs**
- **Manage Support for Others Program**
- **Manage/execute DERP; DoD Executive Agent for FUDS**
- Supervise/coordinate engr services to security assistance programs

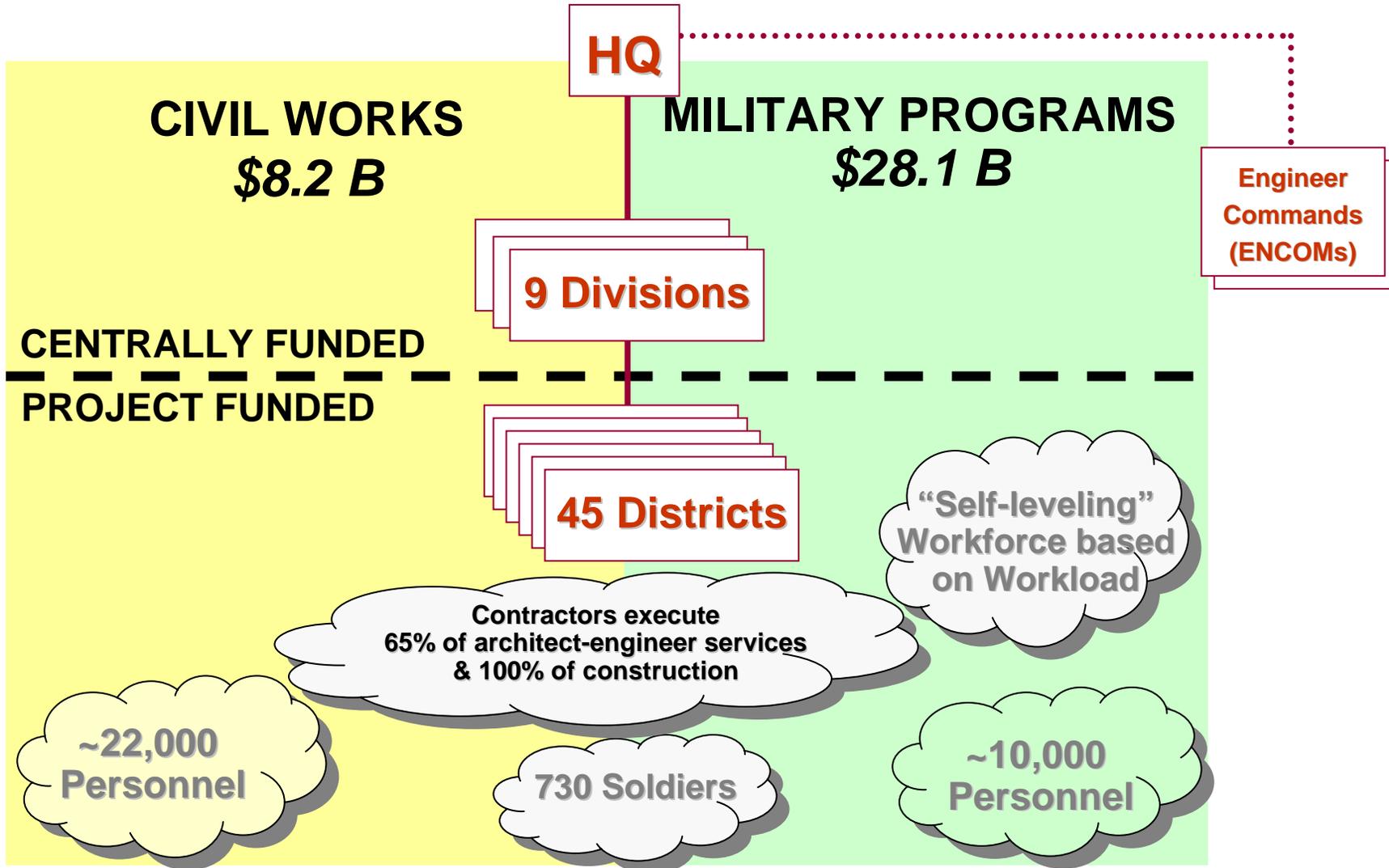
## AR 115-11 (Geospatial Information and Services)

- Assist all Army users in acquiring and exploiting spectral imagery for operational requirements
- Coordinate and manage technical aspects of emerging Geospatial requirements, prototype products, and evolving concepts
- Collect, manage, and disseminate geospatial materials required to support Army users worldwide



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# What is the US Army Corps of Engineers?



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# Support to the Army and the Nation

## USACE Mission Areas

### Global War on Terror (GWOT)

#### Military Programs

- MILCON for Modular Force Global Positioning
- BRAC 05
- Field Force Engineering
- MILCON Transformation
- Environmental restoration

#### Homeland Security



- Critical Infrastructure
- Anti Terrorism Plans
- Intelligence
- Facility Security Partnership

#### Research & Development

- Warfighter
- Installations
- Environment
- Water Resources



#### Real Estate



- DOD Recruiting facilities
- Contingency operations
- Acquire, manage and dispose

#### Interagency Support

- Federal
- State
- Local
- International



#### Civil Works



- Navigation, Hydropower
- Flood control, Shore Protection
- Water Supply, Regulatory
- Recreation, Disaster response
- Environmental Restoration

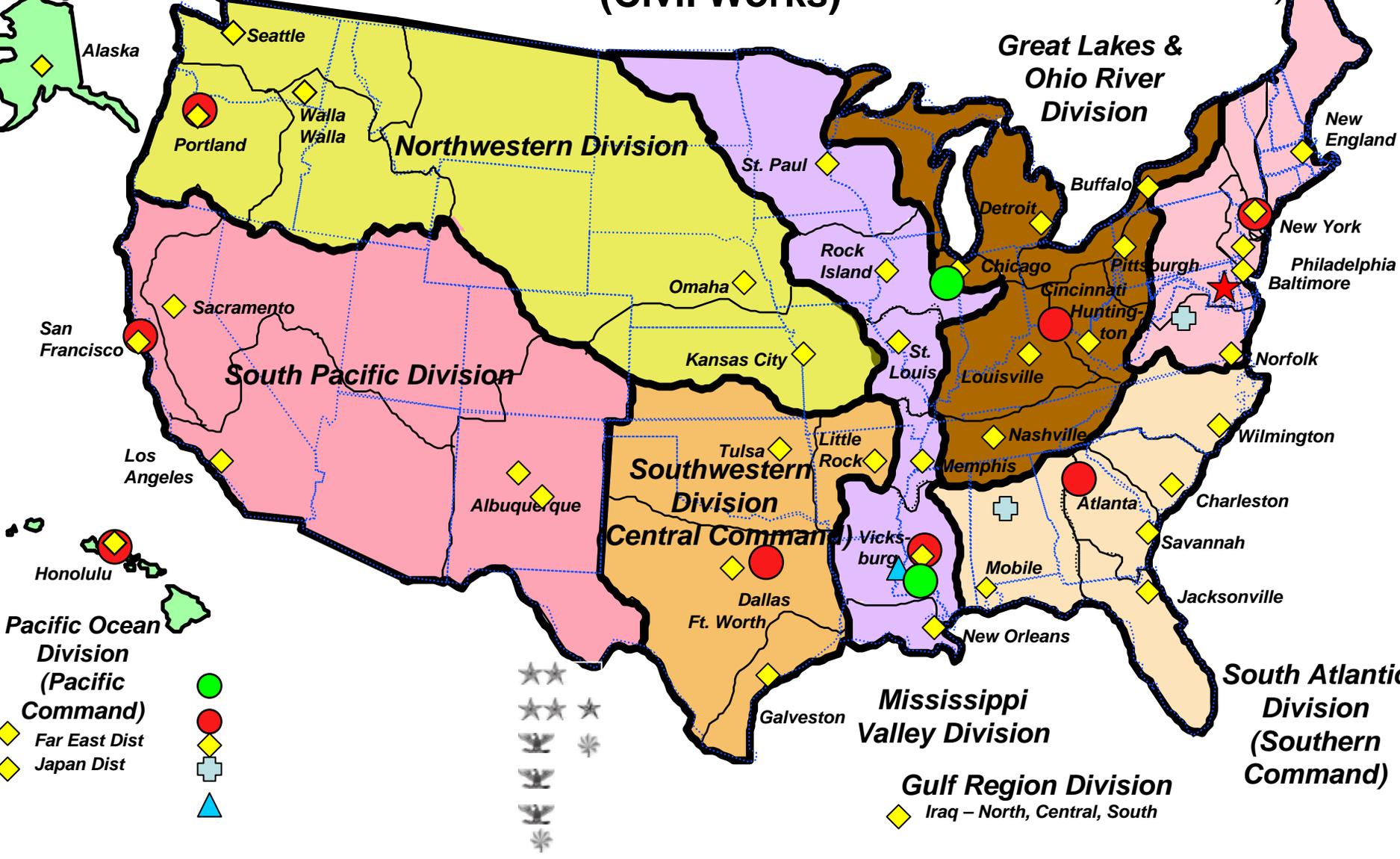


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# Division Boundaries

## (Civil Works)

North Atlantic Division  
(European Command)



Pacific Ocean Division  
(Pacific Command)

Far East Dist  
Japan Dist



Gulf Region Division  
Iraq – North, Central, South

Afghanistan District

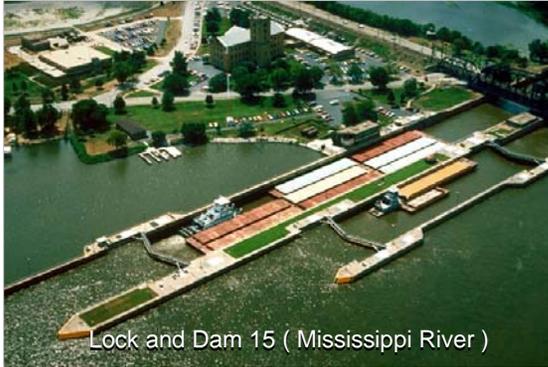
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# Civil Works Program Missions

- Navigation
- Hydropower
- Flood Risk Management
- Ecosystem Restoration
- Water Supply
- Regulatory (Wetlands / US Waters)
- Recreation
- Disaster Preparedness & Response



Lock and Dam 15 ( Mississippi River )



Dredge ESSAYONS ( Coos Bay, OR )



Flood Wall ( Williamson, KY )



Lake Seminole ( Mobile District )



Everglades



Bonneville II Powerhouse ( Washington )

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# USACE Hydropower



**Owns and Operates 24 percent of U.S. Hydropower capacity,  
or 3 percent of the total U.S. electric capacity**

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# USACE Divisions and Military Districts



**LEGEND:**

- Division/Regional HQ location
- Division boundary
- District location
- District boundary
- State boundary

**Overseas Districts**

- Europe** (Germany)
- Far East** (Korea)
- Japan**

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# Support to the Army and Nation

## Major Military Programs



**In-theater  
Support to  
War Fighters**



**Chemical  
Demilitarization**



**Environmental,  
Hazardous/Toxic  
Waste cleanup**



**249th Prime  
Power Bn.**



**Formerly Used  
Defense Sites  
(FUDS) cleanup**



**Army  
Installations**



**Anti-Terrorism &  
Force Protection**



**Presence in  
Other Nations**



**Air Force  
Installations**

**Support to 60  
Non-DOD Federal  
Agencies**



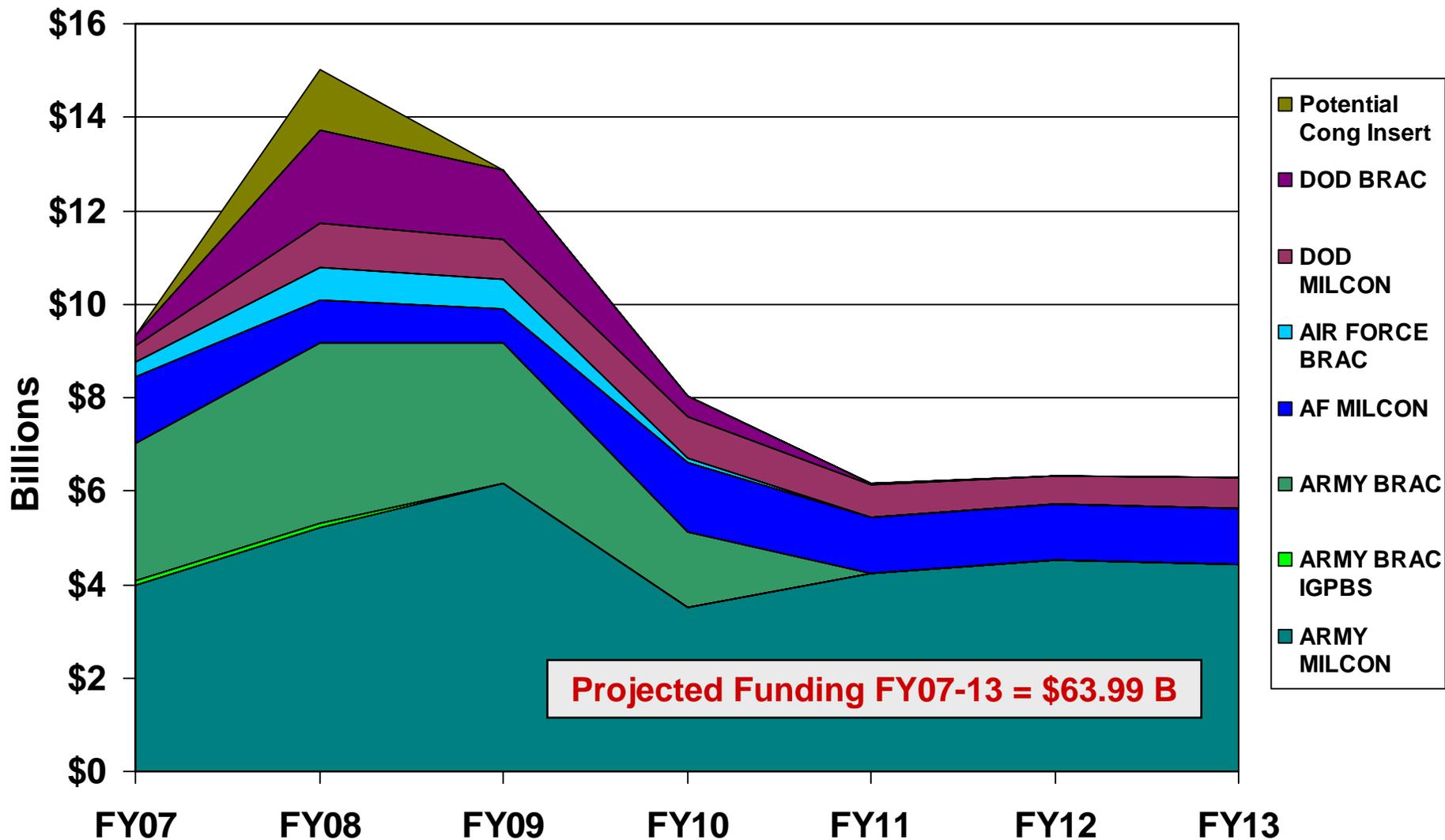
**Radiological  
Site cleanup**

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# USACE Challenge: Execute \$63.99 B of MILCON Requirements (FY07-13)



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# LEED TRAINING

- USACE is the first Federal agency to bulk purchase a block of web based training module for designers and architects from USGBC. That enabled us to train 100 people in application of LEED.
- Advising USGBC in its efforts to convert training to web based environment.
- Seeking funds to train districts especially in light of multi building projects and coordination between CoS and geographical districts.



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# USACE Implementation

- Engineering and Construction Bulletin (ECB) 2006-02 Requires:
  - Establish goals at planning charrettes
  - Refine and report LEED levels in P2 at 4 designated stages.
  - Self-certify final ratings jointly by the DPW or the Reserve Component equivalent, USACE district, designer, CoS and contractor.



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# Support to the Army and the Nation

## Engineer Research and Development Center

- \* 2400 Employees
- \* 1036 Scientists & Engineers
  - \* 431 Master's Degrees
  - \* 283 Doctorate Degrees
- \* \$1.2 Billion in Research Facilities & Equipment
- \* \$700 Million Annual Program



Cold Regions Research  
Engineering

Hanover, NH



Construction Engineering  
Research

Champaign, IL



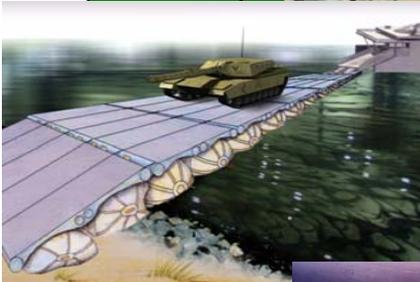
Topographic Engineering  
Center

Alexandria, VA



Coastal and Hydraulics  
Environmental  
Geotechnical and Structures  
Information Technology

Vicksburg, MS





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# ERDC

## Center for Advancement of Sustainable Innovations (CASI)

**Purpose:** To provide capabilities (expertise, tools, knowledge resources and services) to address U.S. Army, Department of Defense and national sustainability challenges.



### Partners include:

- The Center for Sustainable Design at the University of Illinois
- The National Defense Center for Environmental Excellence
- The National Renewable Energy Laboratory
- The Corps of Engineers Huntsville Engineering Center

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# USACE Around the World

## Global Engagement

- Engagement - 100+ Countries
- Physical Presence - 33 Countries

ARCTIC



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# The Way Ahead

- Use sustainability as an “integrator” across Military Programs, Civil Works and R&D
- Incorporate sustainable practices into strategic plans and policy
- Continue watershed/ecosystem approaches
- Beyond sustainability – resiliency, enduring



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