United States Army Corps of Engineers Overview

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on behalf of:

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US Army Corps of Engineers BUILDING STRONG

Briefing Agenda

- USACE Command Overview
- A USACE Division Overview
- History of USACE
- USACE Chief of Engineers Multiple Roles
- USACE Mission: Who we are, What we do, How we do it
 - Program Areas
 - Military Programs
 - Civil Works Programs
 - Engineer Research and Development Center
- Questions

AN OVERVIEW: US Army Corps of Engineers

Overview

• **Military Missions** (Design, Construction, COCOM Support, Environmental, Energy and Sustainability)

• **Civil Works** (Navigation, Hydropower, Flood Control, Shore Protection, Water Supply, Regulatory, Recreation, Disaster Response, Environmental Restoration)

- **Real Estate** (Acquire, Manage and Dispose; DoD Recruiting Facilities; Contingency Operations)
- Research and Development (Warfighter, Installations & Energy, Environment, Water Resources)

•Interagency Support (Federal, State, Local, International)

National Capabilities

- Delivery across the globe
- World-class civilians and Soldiers
- Rapid response to disasters and challenges of all kinds
- Professional delivery of construction, natural resource management, energy, sustainability, capacity building

The Numbers

- 9 divisions, 44 districts
- 35,683 civilians; 782 military
- \$15B for FY12 Military Program
- \$6B for FY12 Civil Works Program
- 6 research labs : \$1.5B
- 25K miles of navigable channels
- 195 commercial locks
- 926 harbors; 694 dams
- 4,300 recreation sites





Mission



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

Engineering solutions to the Nation's toughest challenges

Vision

Priorities

Support the Warfighter Transform Civil Works Reduce Disaster Risks Prepare for Tomorrow

AN OVERVIEW: North Atlantic Division

New England

New York

Overview

 1 of 9 regional business centers, consisting of six districts that plan, design, build, operate and maintain military and civil works projects and facilities within the region, Europe and Africa

 Projects address the environmental, infrastructure, and water-resource challenges within the region

• Support the military, protect America's water resources, and restore and enhance the environment

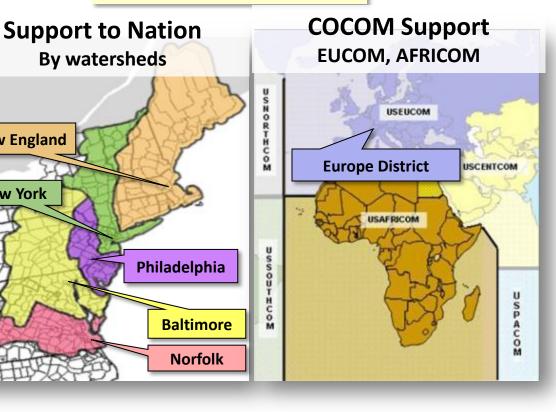
The Numbers

- 23% of U.S. population (72 M)
- 20% of U.S. commercial cargo
- 3,400 employees
- 50 Army, 13 USAF installations
- 2685 mi. of navigation channels
- 63+ miles of levees/channels
- 5 major ports; 3 hurricane barriers
- 8 high-rise bridges
- 54 dams; 5 canals; 4 locks



Division Capabilities

- Master Planning, Sustainability
- Construction Management
- Engineering, Design, Inspection
- Dredging
- Operations and Maintenance
- Disaster Response & Recovery
- Environmental Services
- Real Estate Services
- Estimating, Value Engineering
- Coastal Storm Damage Reduction
- Modeling
- Independent Technical Review
- Reach-back capability



History of the U.S. Army Corps of Engineers



1775-Today

•GEN George Washington appointed Colonel Richard Gridley as the Army's first chief engineer June 16, 1775.

•In **1779** Congress created a "Corps of Engineers," which included many French officers, to provide engineering support during the Revolutionary War.

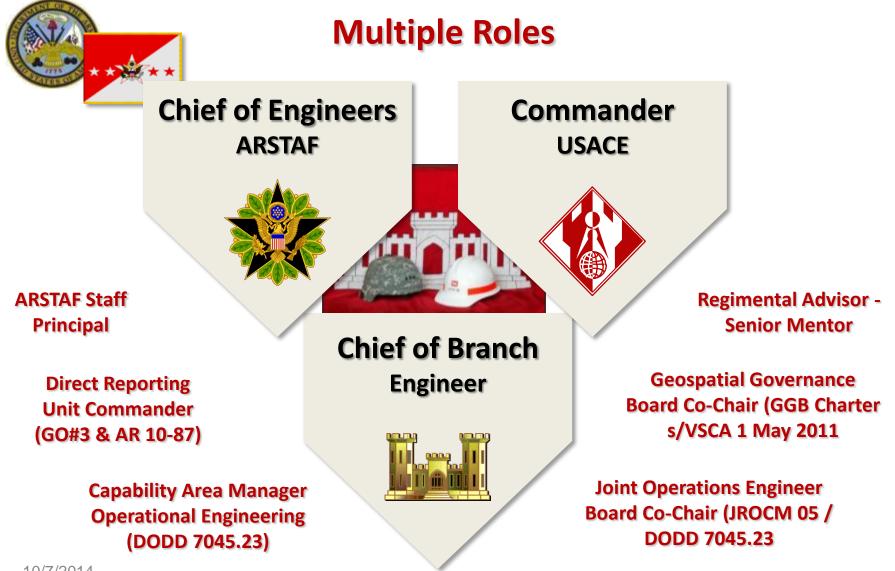
•On **March 16, 1802**, the Army re-establishes USACE permanently. First task: Found and operate USMA, which, until the mid 1800s, was the country's only engineering school, with only engineers as academy superintendents until 1866.

•In the **early 1800s**, Congress tasked USACE – the only formally trained body of engineers in the new republic – to contribute works "of a civil nature," starting with a coastal fortification in Norfolk, lighthouses, jetties, and maps of the navigation channels. USACE also constructed monuments in Washington, D.C.

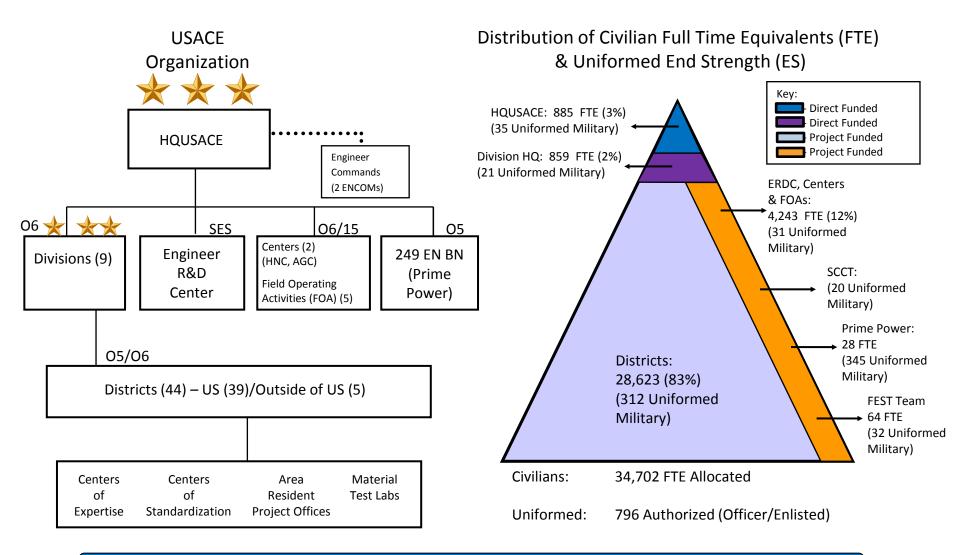
•As a young nation, America's frontiers beckoned. USACE soon began exploring and mapping the Western frontier and working on canals, rivers, and roads to ensure its pathways were cleared for commerce, military uses, and public mail. USACE surveyed and built roads over the Appalachians, eliminated navigational hazards, and built canals, locks, levees.

•Since then, USACE has responded to changing defense requirements and played an integral part in the development of the country.

Chief of Engineers Responsibilities



USACE Organization and Manpower



Workforce Size Driven by Customer Programs – 95% FTE Project Funded

USACE Mission Areas

BUILDING STRONG – USACE Supports the Army and the Nation

Military Programs

Military Construction
COCOM Support ,Overseas
Contingency Operations (OCO)
Installation Support,
Environmental, Energy and
Sustainability



- Acquire, Manage and Dispose
- DoD Recruiting Facilities
- Contingency Operations

Geospatial Support

- Civit Motion Civit
- Navigation, Hydropower
- Flood Control, Shore Protection
- Water Supply, Regulatory
- Recreation, Disaster Response
- Environmental Restoration

Research & Development

- Warfighter
- Installations & Energy
- Environment
- Water Resources
- Support to Civil Works Programs
 Support to Military Programs

Homeland Security



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

Interagency Support

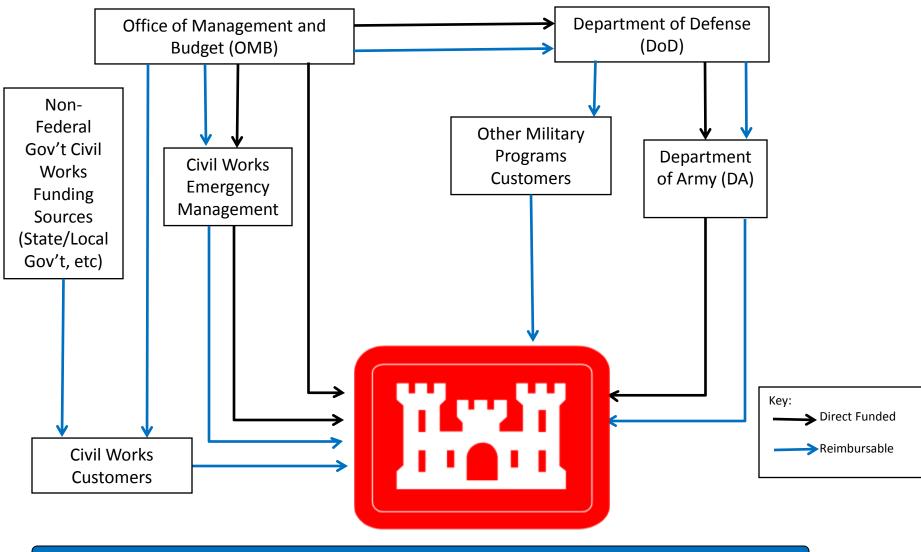
FederalStateLocal



- International
- Common Operating Picture/Environment
- Support to Emergency & Contingency Ops

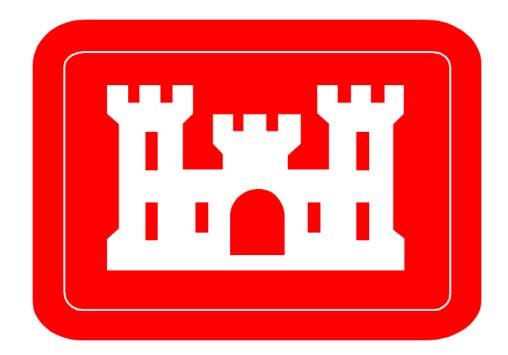
USACE Has a Diverse Mission Set ... Driven by Diverse Customers

USACE Funding Flow



USACE Funding Comes from Multiple Sources

Military Programs



Military Programs Missions







- Military Construction
- Real Estate
- Overseas Contingency
 Operations (OCO)
- Installation Support
- Environmental of Formerly Used Defense Sites
- Interagency Support
- International Services



BUILDING STRONG_®



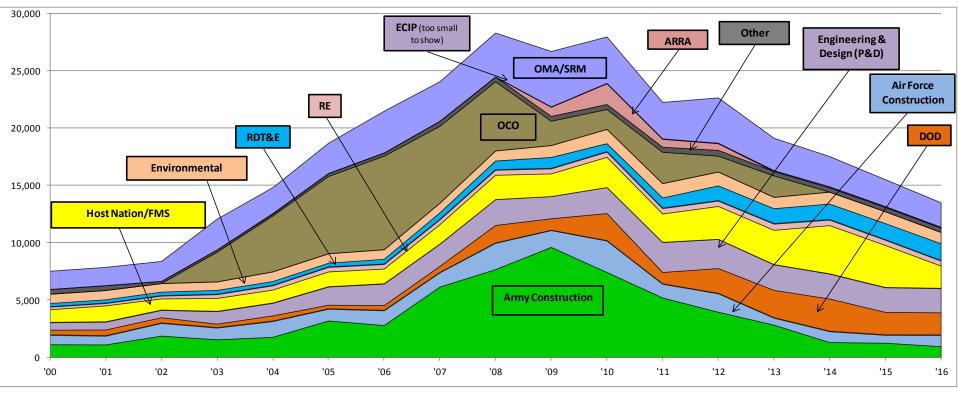


Afghanistan Engineer District - South



Military Missions Program Trends FY00-16

Program (\$Millions)



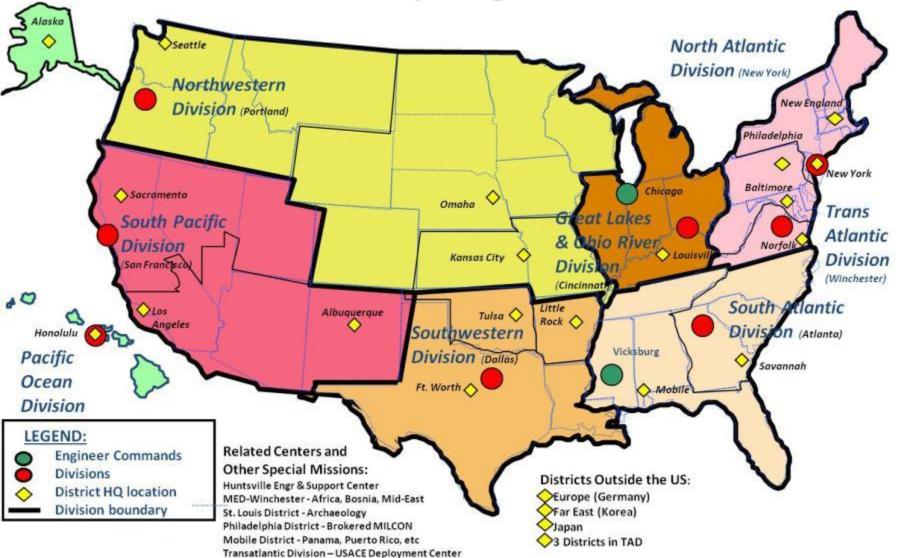
FY12 Consists of actual executed program

FY13 Consists of current program on books plus FY12 carryover

FY14-16 Consists of PRESBUD as of 26 Oct 12

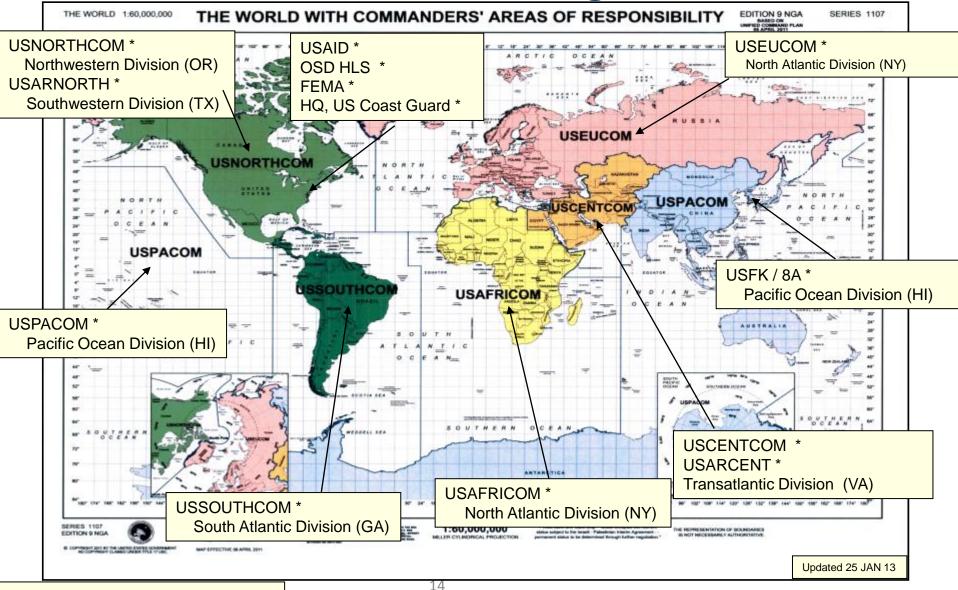
OCO (FY12 and FY13) only includes OMA OCO for the Overseas Mission and Reconstruction-Reimbursable for Afghanistan Security Forces Other includes OPA, Non-DOD Reimbursable, Diviison Support for MILCON (DOS) – direct and Other Dir (MCA SPT/DS-SD/ETC) Note: The FY09-12 OMA/SRM data was adjusted to correct a discovered duplication error

USACE Military Programs Boundaries



USACE Alignment with Geographic CCMDs

and other Federal Agencies

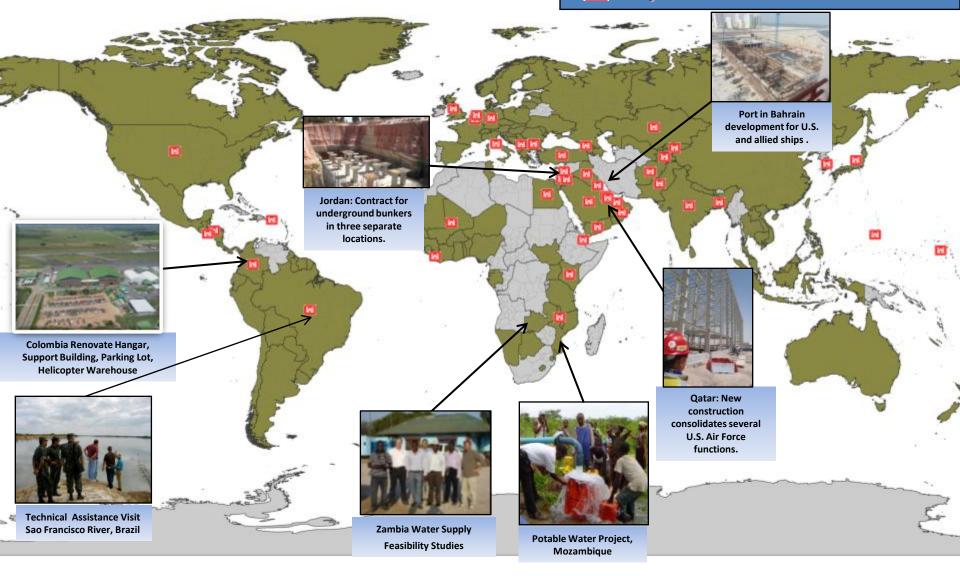


* USACE provides embedded LNO

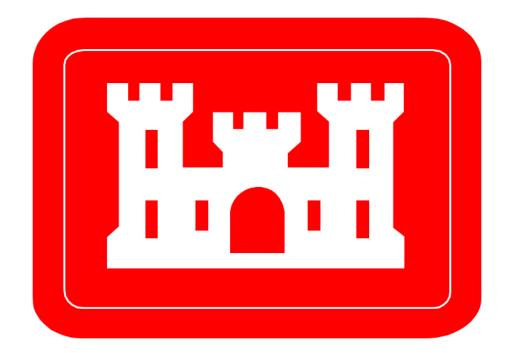
FY 12/13 USACE Global Engagement

Engagement - 132+ Countries

Physical Presence - 43 Countries



Civil Works Programs



The Civil Works Mission

Development & Management of Water Resources Infrastructure



Engineering & Technical Services



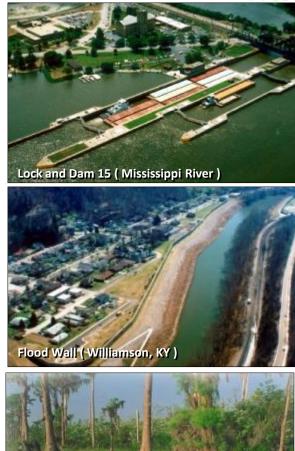
Protection, Restoration & Management of Environmental Resources



Disaster Response & Recovery



Civil Works Program



Florida Everglades

Preserving the Strength of the Nation

Deliver enduring, comprehensive, sustainable, and integrated solutions to the Nation's water resources and related challenges through collaboration with our stakeholders

(Regions, States, localities, Tribes, other Federal agencies)

(\$1.883 B) Navigation (38%)

(\$1.425 B) Flood Risk (28%) Management

(\$621 M) Ecosystem (12%) Restoration & Infrastructure

(\$193 M) Hydropower (4%)

(\$243 M) Recreation & Natural (5%) Resource Management

(\$193 M) Regulatory Program: (4%) Wetlands & Waterways

(\$6 M) Water Supply (<1%)

(\$185 M) Expenses (4%) (Includes ASA(CW)) (FY 2012 Workplan)







Civil Works Value to the Nation















 Nearly \$8 in flood damages prevented for every \$1 spent on Flood Risk Management

- Stewardship of 11.7 million acres of public lands
- 14,500 miles of Levees and 400 miles of shoreline protection
 - 702 Dams and 926 Harbors
 - 13,000 miles of Commercial Inland Waterways
 - Environmental Restoration and Emergency Responses
 - Recreation program generating \$16 B + 270 K jobs

•3% of Nation's Electricity: \$1.5 B plus in sales

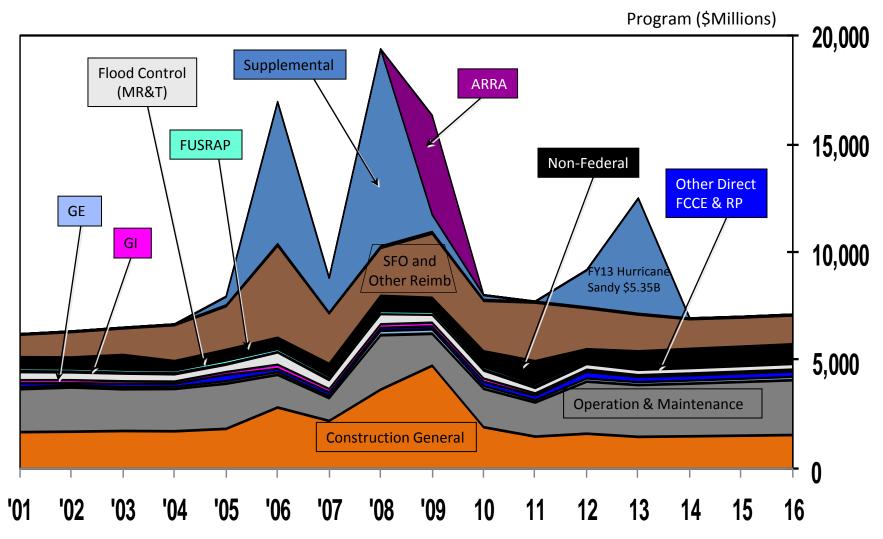
 •Waterways moving goods at 50% cost of Rail and 10% cost of Trucks
 • U.S. Ports and Waterways convey >2B Tons of Commerce Foreign Trade creates >\$160 B in Tax Revenues







Civil Works Program Trends FY01-16



National Water Resource Challenges









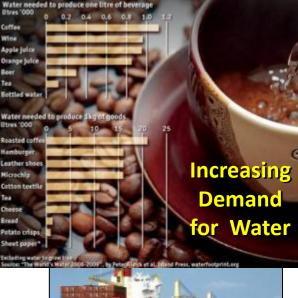














Civil Works Support to National Defense

Civil Works makes available:

- 25,000 engineers and related professionals.
- Large-scale construction capability.
- Relationship with contracting community.
- Environmental skills.
- Location in hundreds of communities.
- Interaction with millions of citizens.
- ... all at no peacetime cost to DOD.



Corps members deployed to Iraq and Afghanistan have built roads, airstrips, ports, electric stations, hospitals, schools, and other key infrastructure to promote stability.

Regional Water Resources Challenges

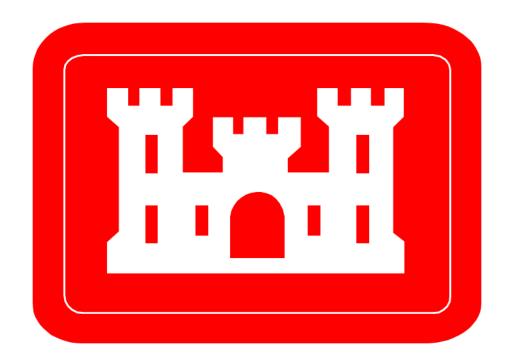
- Asian Carp (Great Lakes/Mississippi River)
- Vegetation on Levees (WA, CA, TX)
- ACT/ACF Basins (GA, AL, FL)
- Everglades Restoration
- Great Lakes Lake Levels
- Chesapeake Bay
- Bay Delta, CA
- Columbia Fish Program (OR, WA, ID)
- Columbia River Treaty
- Missouri River
- Ohio River Basin







Engineer Research And Development Center



Engineer Research & Development Center

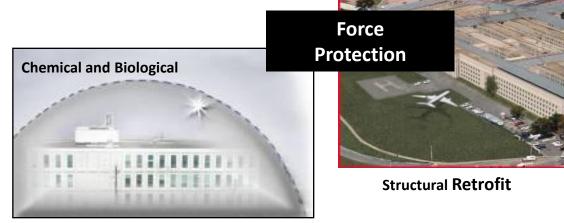


Engineer Research & Development Center

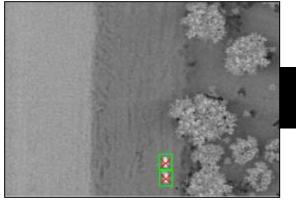
Support to the Army and the Nation, Leveraging Technical Engineer Capabilities with R&D



Rapid Airfield Construction



Immune Buildings Counter Rocket, Artillery & Mortar



IED Simulation and Detection

Countermine Phenomenology



Countermine Phenomenology Test bed

U.S. Army Corps of Engineers - Facts

- USACE is structured to deliver across the globe.
- USACE has world-class Civilians and Soldiers.
- USACE rapidly responds to disasters and challenges of all kinds.
- USACE delivers professional results in construction, natural resource management, energy, sustainability, capacity building.



We are U.S. Army "ambassadors" on a daily basis to political leaders, America's small businesses, and to citizens wherever we serve them.

Questions

