US Army Corps of Engineers

Speaker

Title

U. S. Army Corps of Engineers

Date

U.S.ARMY

US Army Corps of Engineers

BUILDING STRONG®

USACE provides value for our Nation in many ways to diverse stakeholders.

- We deliver positive impacts for today and tomorrow – in construction, natural resource management, energy and sustainability, and capacity building, and more . . . .
- We have the "right" people: world-class professional civilians and soldiers.
- We are U.S. Army *"ambassadors"* on a daily basis to political leaders, America's small businesses, and to citizens wherever we serve them . . . .

USACE Vision

Engineering solutions for the Nation's toughest challenges.

USACE Mission

Deliver vital engineering solutions, in collaboration with our partners, to secure our Nation, energize our economy, and reduce risk from disaster.

U.S. Army Corps of Engineers

239 Years of Service to the Nation

USACE in our Nation's History

" America's history is, in large part, a story of infrastructure. "

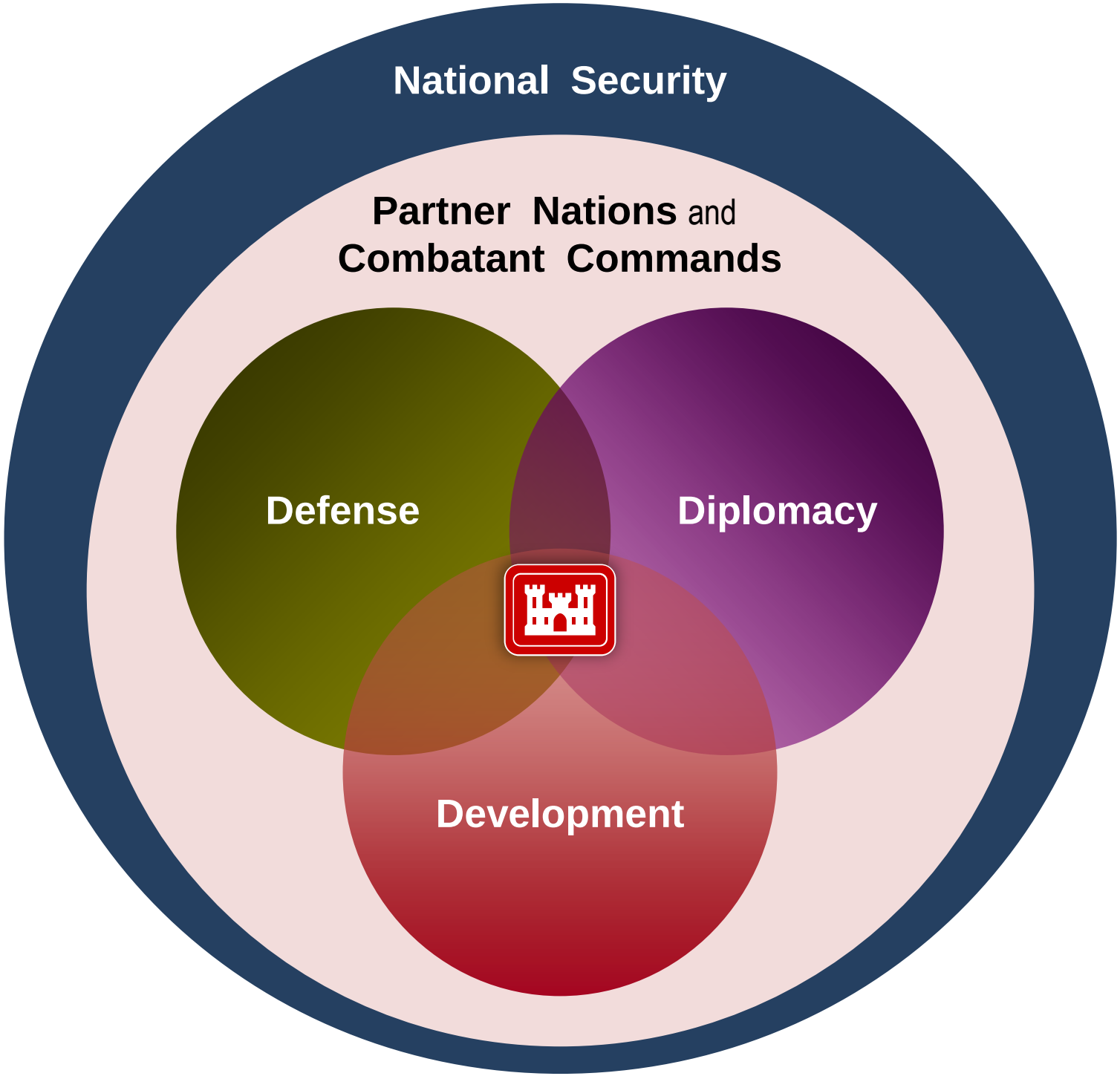
1775 1824 1927 1956 2005

1800 1900 2000

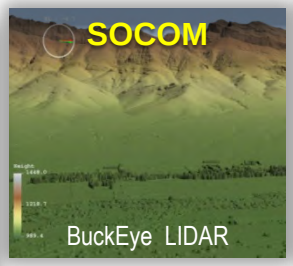
1812 1862 1933 1970

?

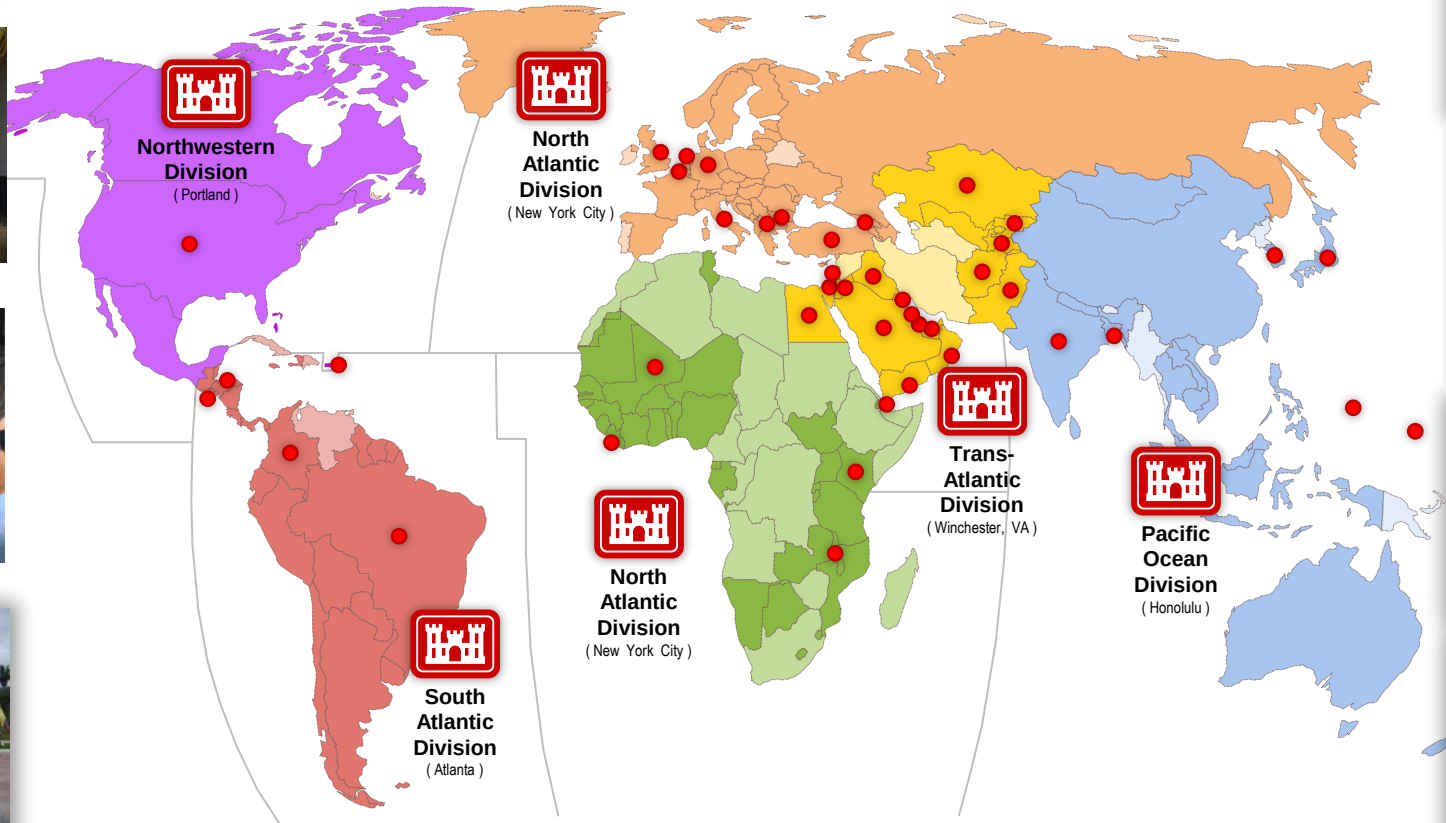
National Security Strategy: Our USACE Role



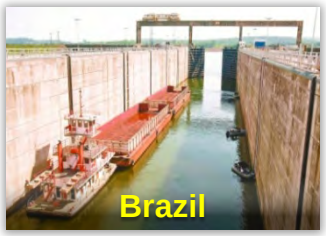
USACE is Regionally Aligned; Globally Responsive

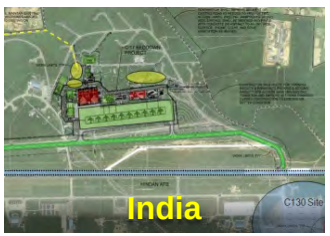


Engagement (132+ Countries) **Physical Presence** (43 Countries)



33K civilians have deployed to contingency operations; 11K from USACE





USACE Mission Areas

Military Missions

Military Construction

COCOM Support, Overseas Contingency Operations (OCO)

Installation Support, Environmental, Energy and Sustainability

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

Civil Works

Contingency Operations

"Whole of Government" Disaster Response and Recovery

Life-Cycle Flood Risk Management

Critical Infrastructure

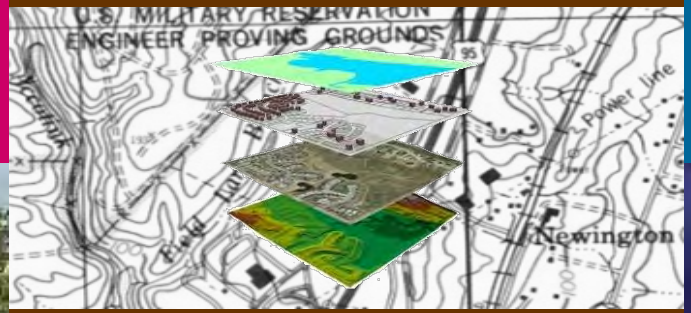
Federal / State / Local

"Whole of USACE" Capabilities

Capacity Development

International and Interagency

Geospatial Support



Common Operating Picture / Environment

Civil Works Programs

Military Programs

Emergency and Contingency Operations

Warfighter

Installations and Energy

Environment

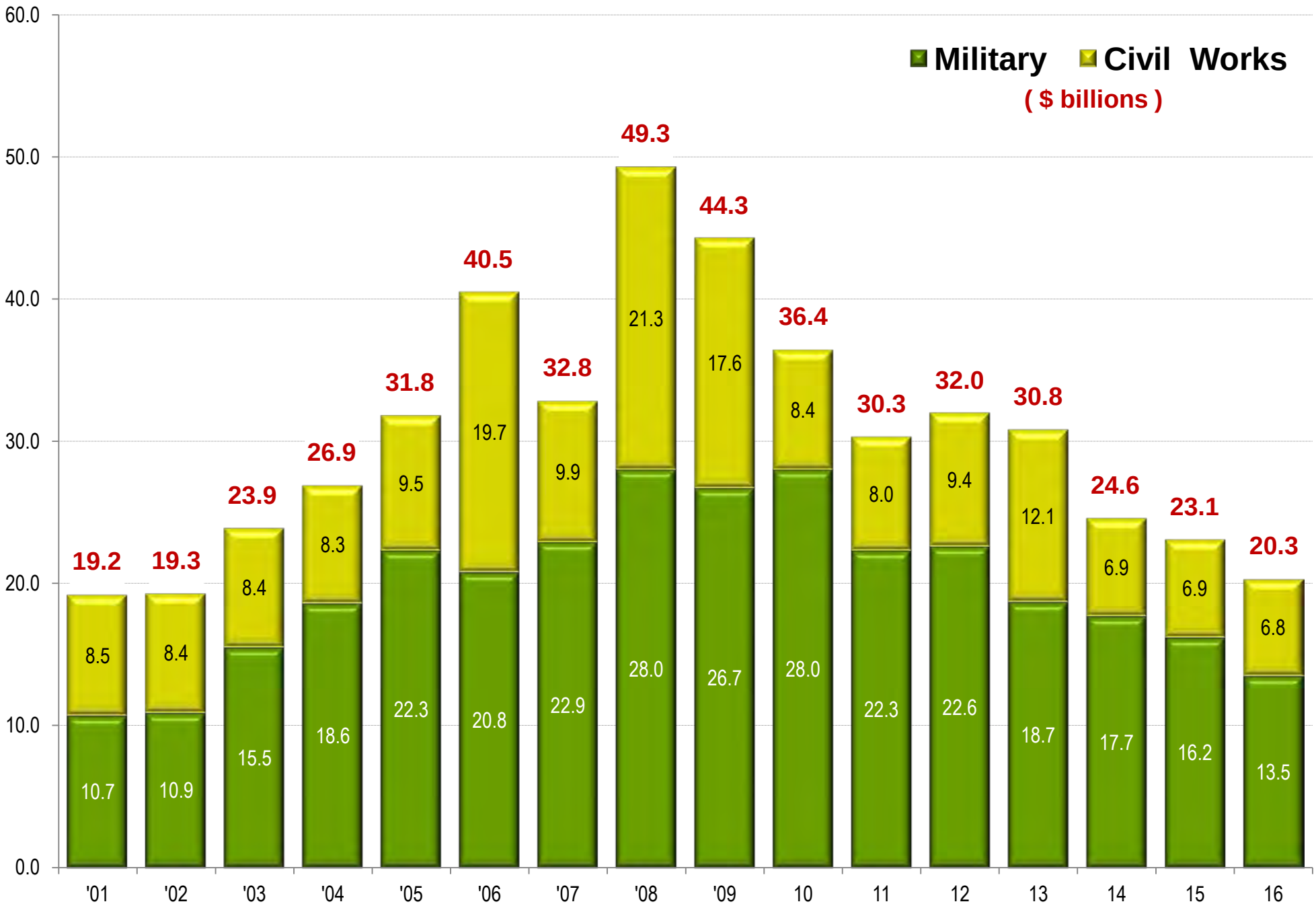
Water Resources

Research and Development

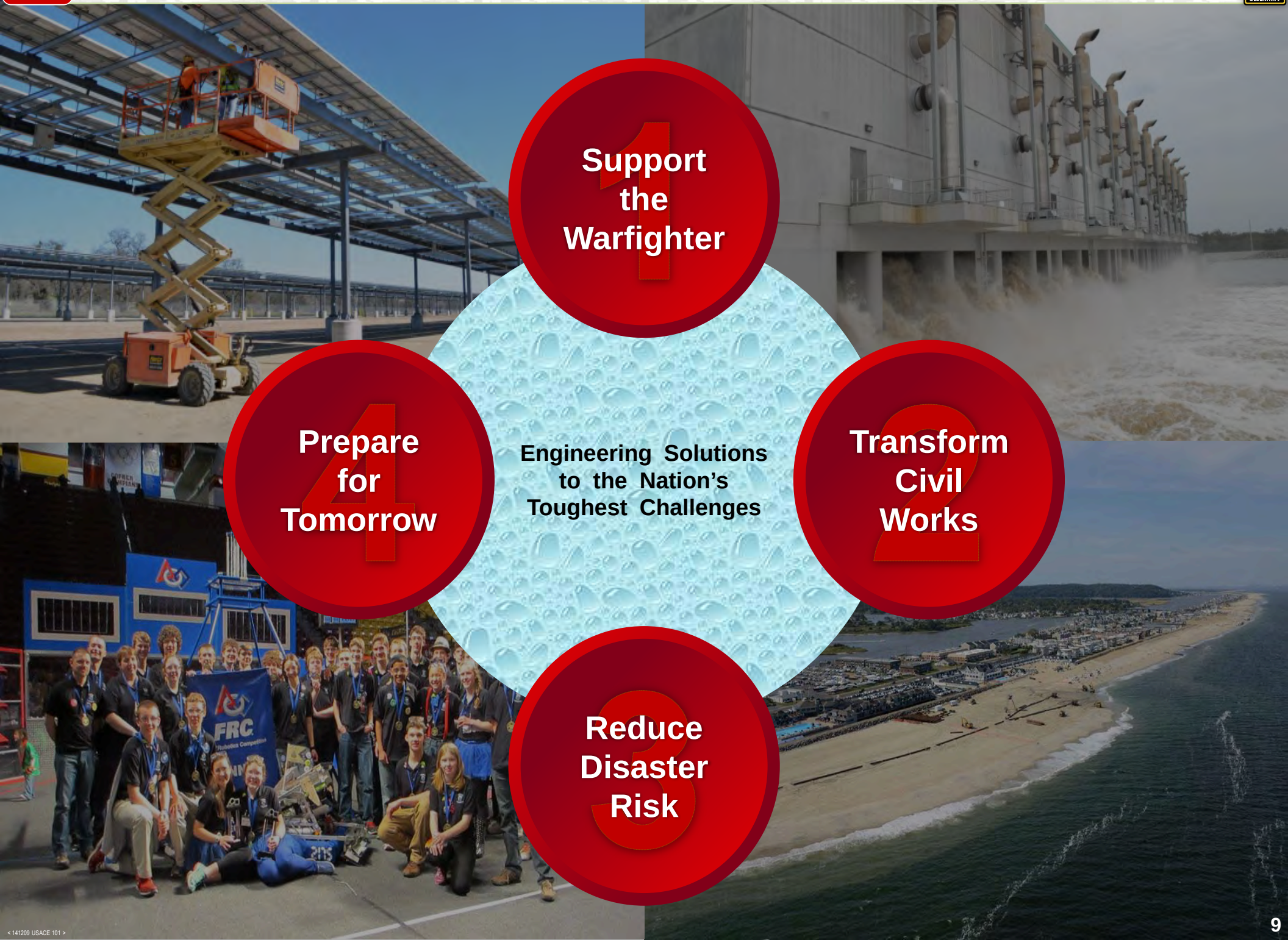
Real Estate – Acquire, Manage and Dispose / DoD Recruiting Facilities / Contingency Operations

USACE Has a Diverse Mission Set Driven by Diverse Customers

The USACE Program



(4 Goals) USACE Campaign Plan (12 Words)



Multiple Roles

Chief of Engineers
Army Staff

Commander
USACE

Chief of Branch
Engineer

Army Staff Principal

Direct Reporting Unit Commander
General Order No. 3
Army Regulation 10-87

Geospatial Governance Board Co-Chair
GGB Charter / VSCA 1 May 2011

Advisor / Senior Mentor
Engineer Regiment

Joint Operations Engineer Board Co-Chair
JROCM 05 / DODD 7045.23

Capability Area Manager Operational Engineering
DODD 7045.23

USACE Structure and Business Model

CG (★★★, 35,683) — **CEO**

DCG (★★) — **COO**

Agency Enablers
(Support Functions)

Chaplain	Safety	EEO	Counsel	EIG	Strategy	PAO	Small Business	History	Internal Review	Contracts	RM	Logistics	HR	R&D	C!
3	8	22	95	12	14	15	17	8	28	113	67	11	66	9	75

Major Subordinate Commands
(Geographical)

- Transatlantic (★★, XXXX)
- Great Lakes and Ohio River (★, XXXX)
- Mississippi Valley (★, XXXX)
- North Atlantic (★, XXXX)
- Northwest (★, XXXX)
- Pacific Ocean (★★, XXXX)
- South Atlantic (★, XXXX)
- South Pacific (★, XXXX)
- Southwest (★, XXXX)

DCG-CEO (★★) — **DCG-MIO** (★★)

Enterprises
(Programs / "Industries")

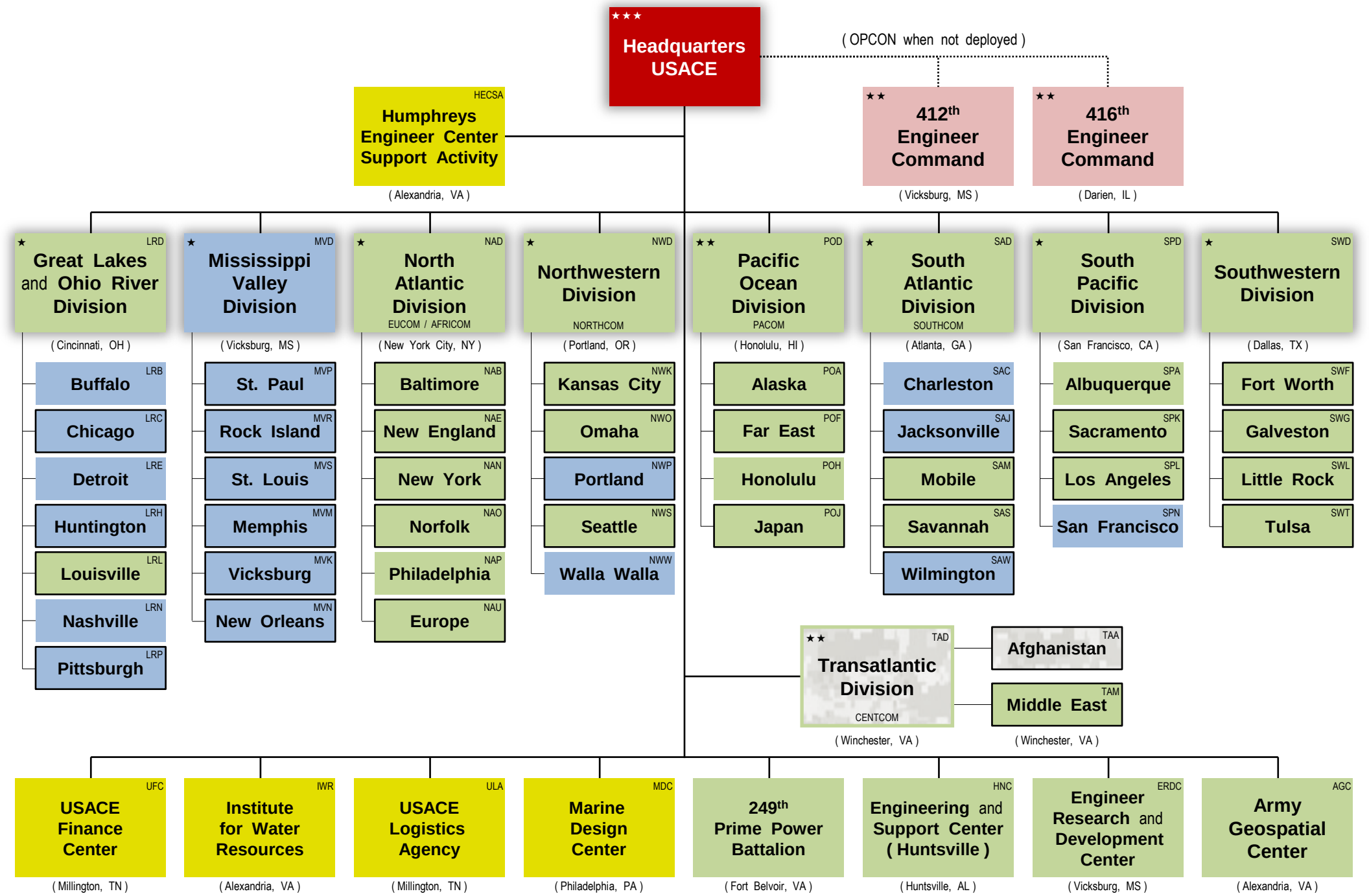
Civil Works	Contingency Operations	Military Missions	Interagency International	Army Geospatial	Engineer R&D
207	108	200	5	XXX	4,120

Joint / Matrixed Solutioneering

Commands
(*Divisions* and *Districts*)
horizontally synchronize *demands* and *operations* for *guaranteed delivery* across all enterprises

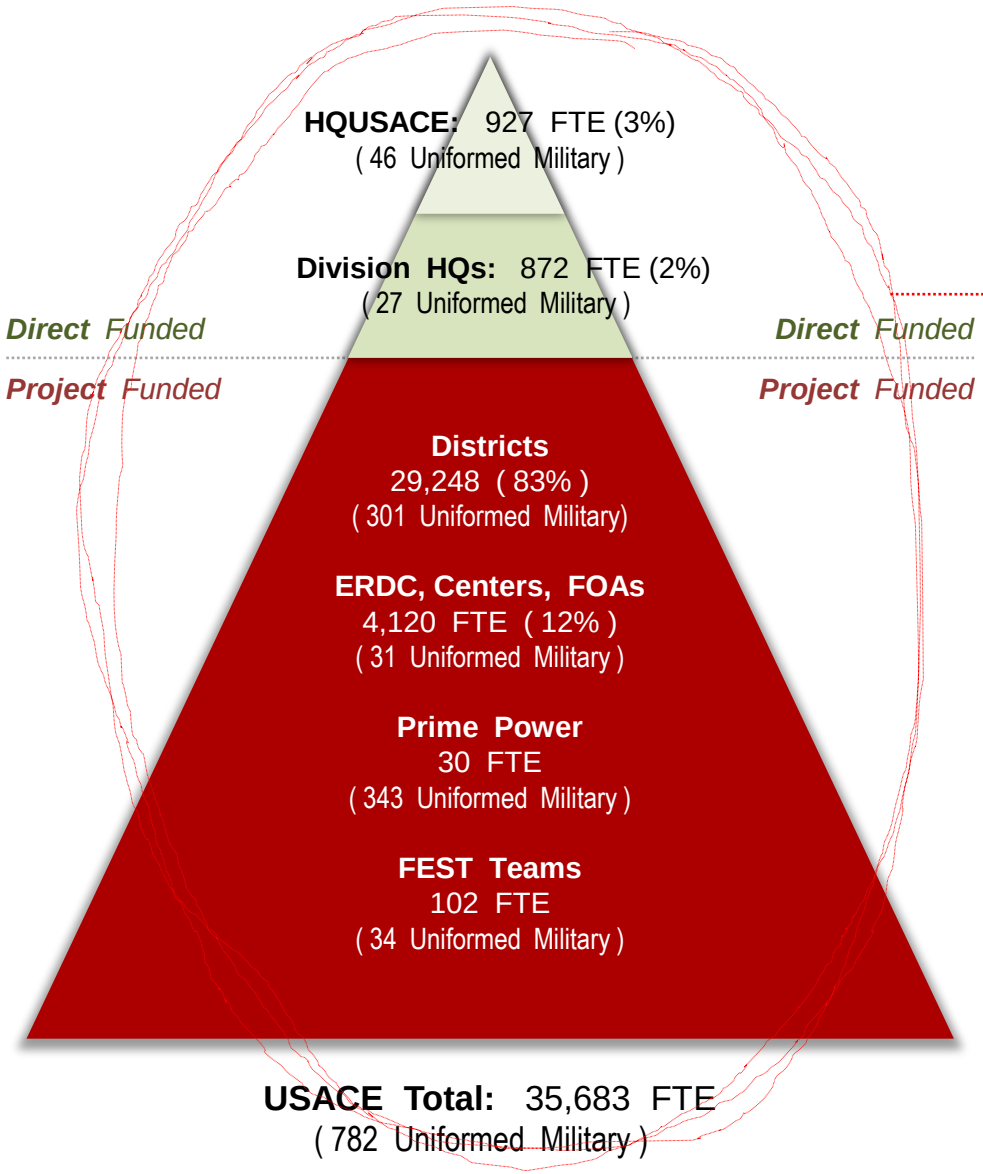
Enterprises vertically integrate *policies* and *resources* for *consistency* across all commands

Organizational Structure

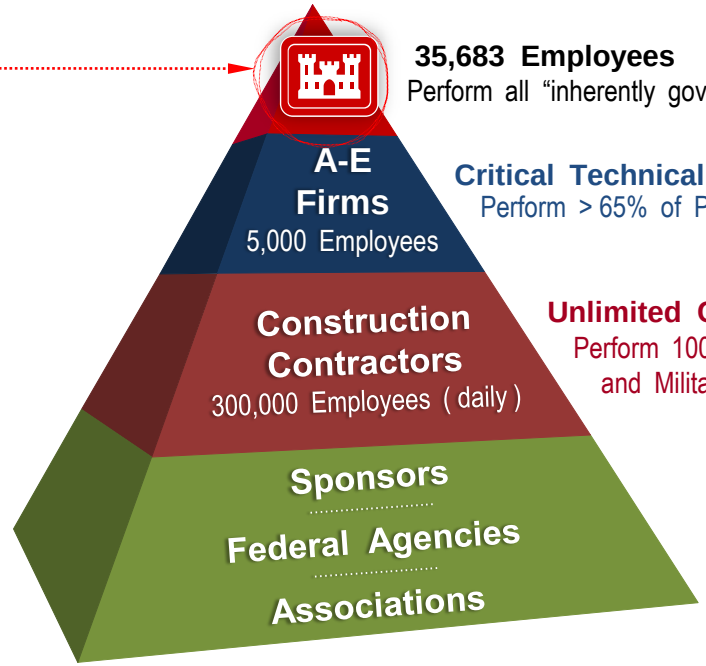


USACE Organization and Manpower

Civilian Full Time Equivalents (FTE) and Uniformed End Strength (ES)



USACE Total: 35,683 FTE
(782 Uniformed Military)



35,683 Employees
Perform all "inherently governmental" functions

Critical Technical Resource
Perform > 65% of Planning and Design

Unlimited Capability
Perform 100% of Civil Works and Military Construction

USACE Maintains a Balance Between In-sourced and Outsourced Work

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

Districts are "Self-Financing" by Projects

Project – Based Funding

$ Income $
(for Projects)

- Military Interdepartmental Purchase Requests (MIPRs)
- Funding Authorization Documents (FADs)
- Contributed Funds

Business – Type Accounting

Capital Budgeting

Activity – Based Costing

Complex Revolving Fund

Workforce – Workload Balancing

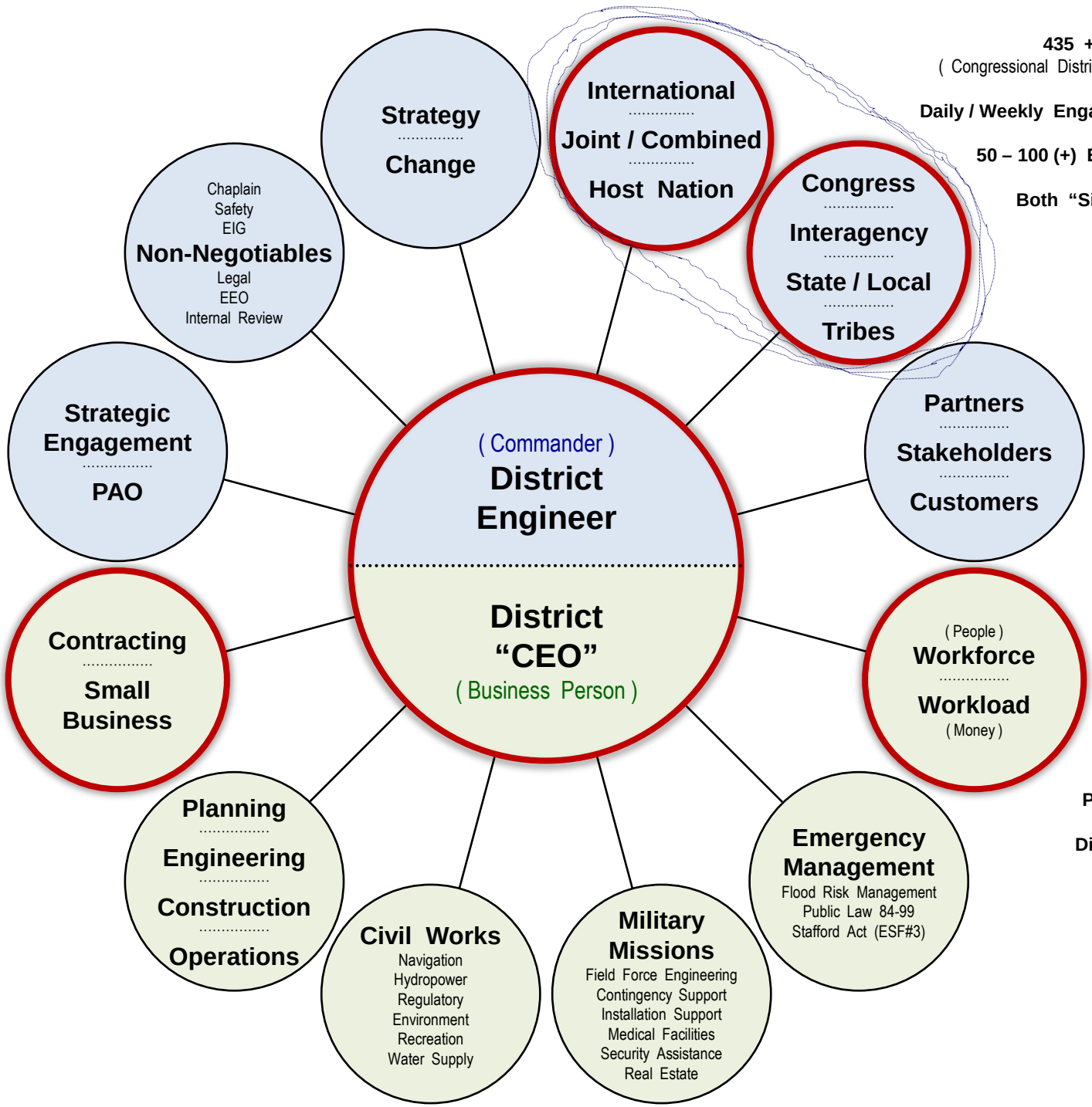
$ Expenses $
(for Workforce / Overhead)

- Salaries
- Contracts
- Equipment
- Supplies
- Facility Services
- Rent
- Other

Districts must "turn a profit" to fund their workforce and overhead costs / initiatives

"Soldier – Statesman – CEO" District Commanders (LTC / COL)

Commander + Business Person + JIIM Operator + 4X "Political" Engagement (> most GOs)



435 + 50 + 513 + 9
(Congressional Districts / States / Tribes / COCOMs)

Daily / Weekly Engagement w/ Members / Staffs

50 – 100 (+) Engagements Annually

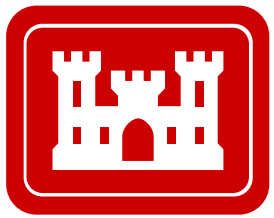
Both "Sides of the Aisle"

Workforce = 100+ – 1000+

Programs = $100M+ – $1B+

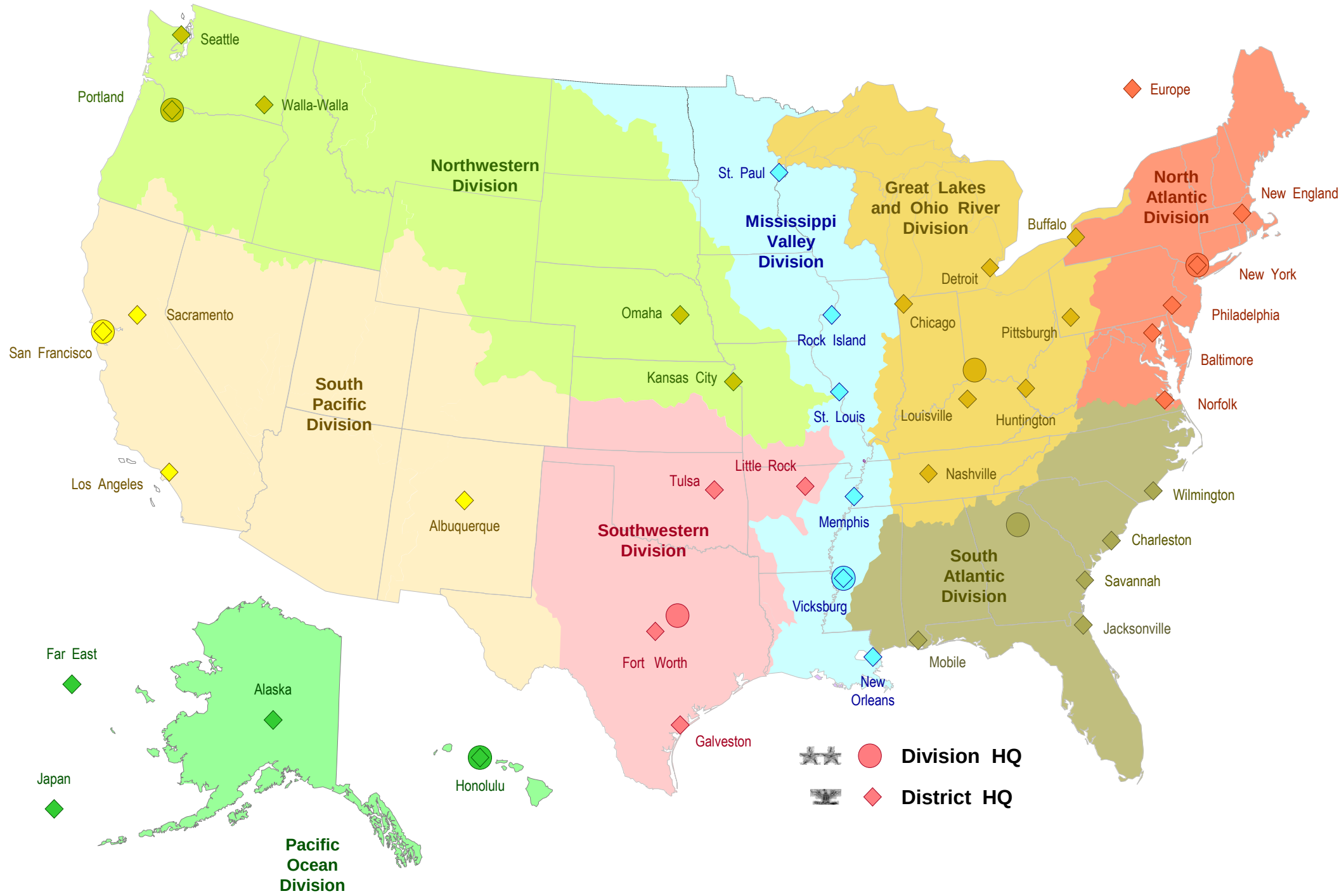
Districts 100% Reimbursable

USACE Civil Works

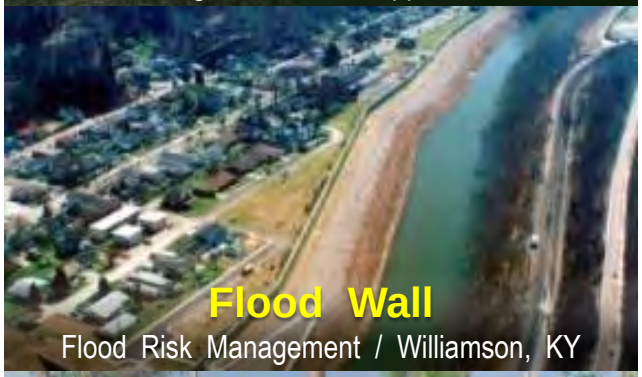


U. S. Army
Corps of Engineers

Civil Works Divisions and Districts



USACE Civil Works



Deliver enduring and essential water resource solutions using effective transformation strategies.

Navigation

Flood Risk Management

Ecosystem Restoration and **Infrastructure**

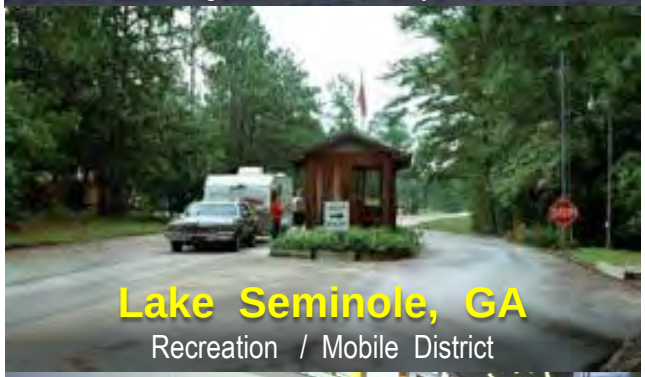
Recreation and **Natural Resource Management**

Hydropower

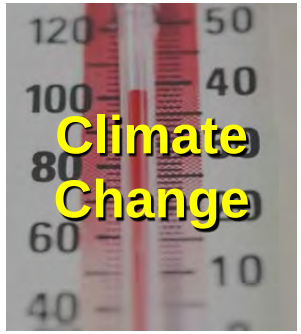
Regulatory
Wetlands and Waterways

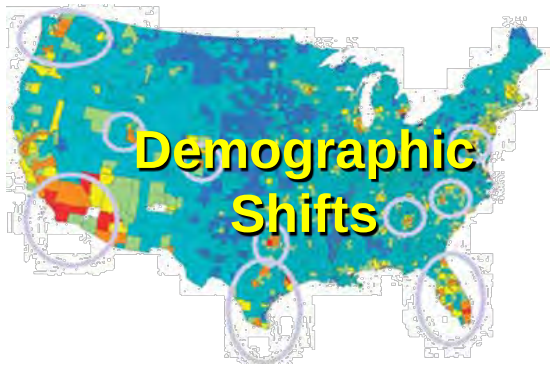
Water Supply

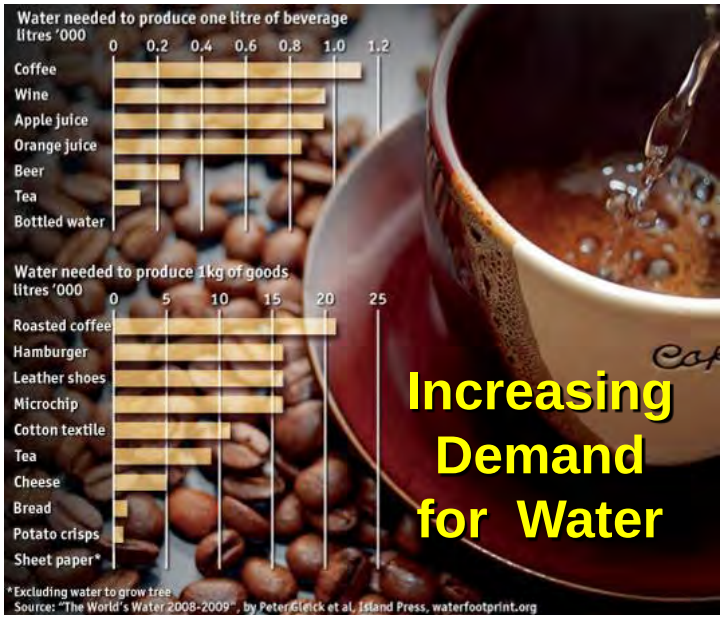
Expenses
Includes ASA(CW)



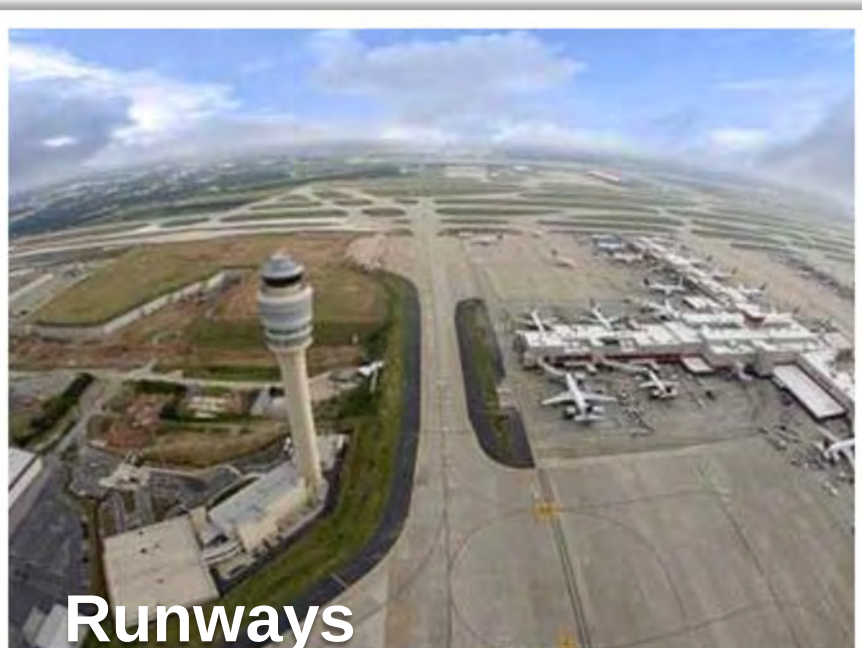
National Water Resource Challenges



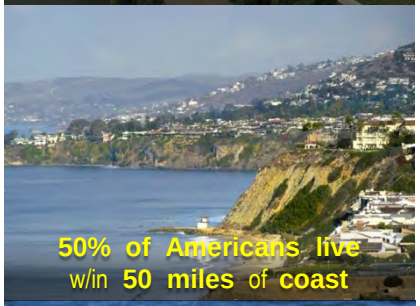




Our Nation's Infrastructure GPA: D+



Securing Our Nation's Future Through Water



Navigation - Moving goods to market

USACE operates 13,000 miles of Commercial Inland Waterways; generates $18 B / 500,000 jobs, annually

Flood and Disaster Risk Reduction

USACE prevents > $6 in flood damages for every $1 invested

Hydropower - Inexpensive and sustainable

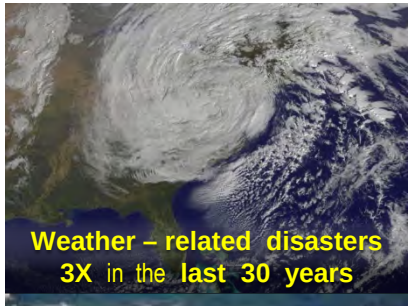
USACE is the Nation's largest renewable energy producer

Drinking Water

USACE produces 6.5 billion gallons per day

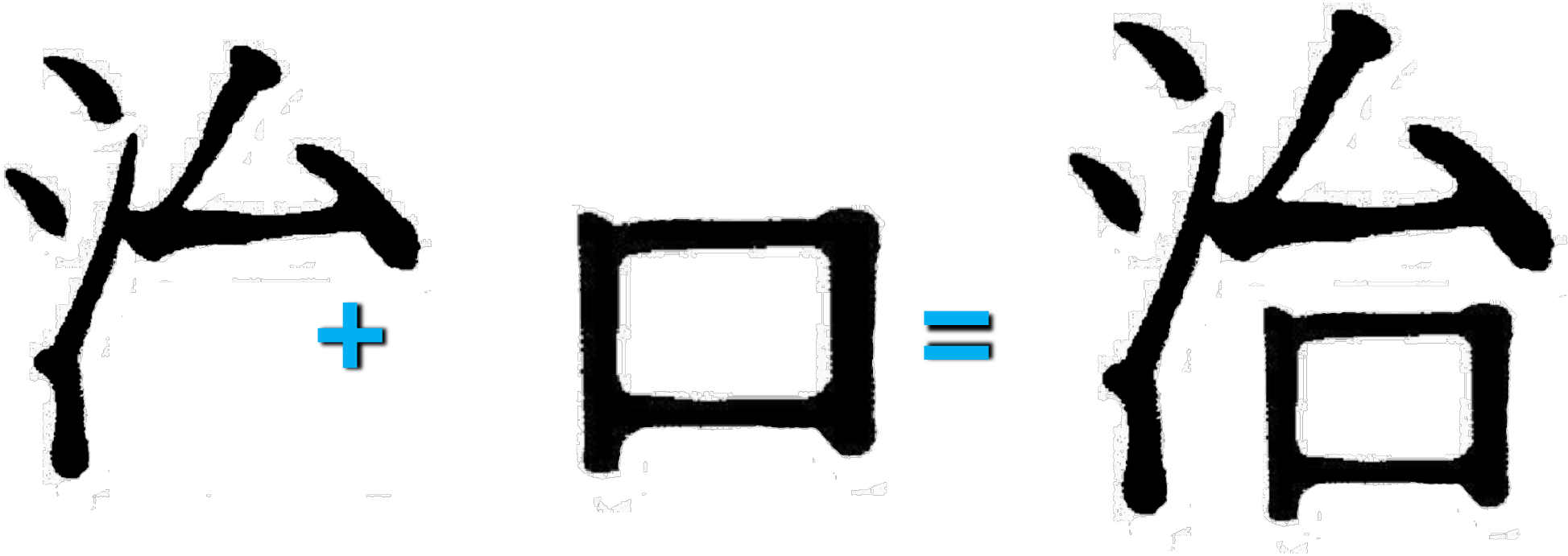
Quality of life

USACE is the No. 1 Federal provider of outdoor recreation contributing > $16 B to local economies



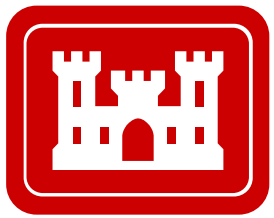
Water Management (and Water Reform)
is ALWAYS political . . . .

Ancient Chinese Characters:



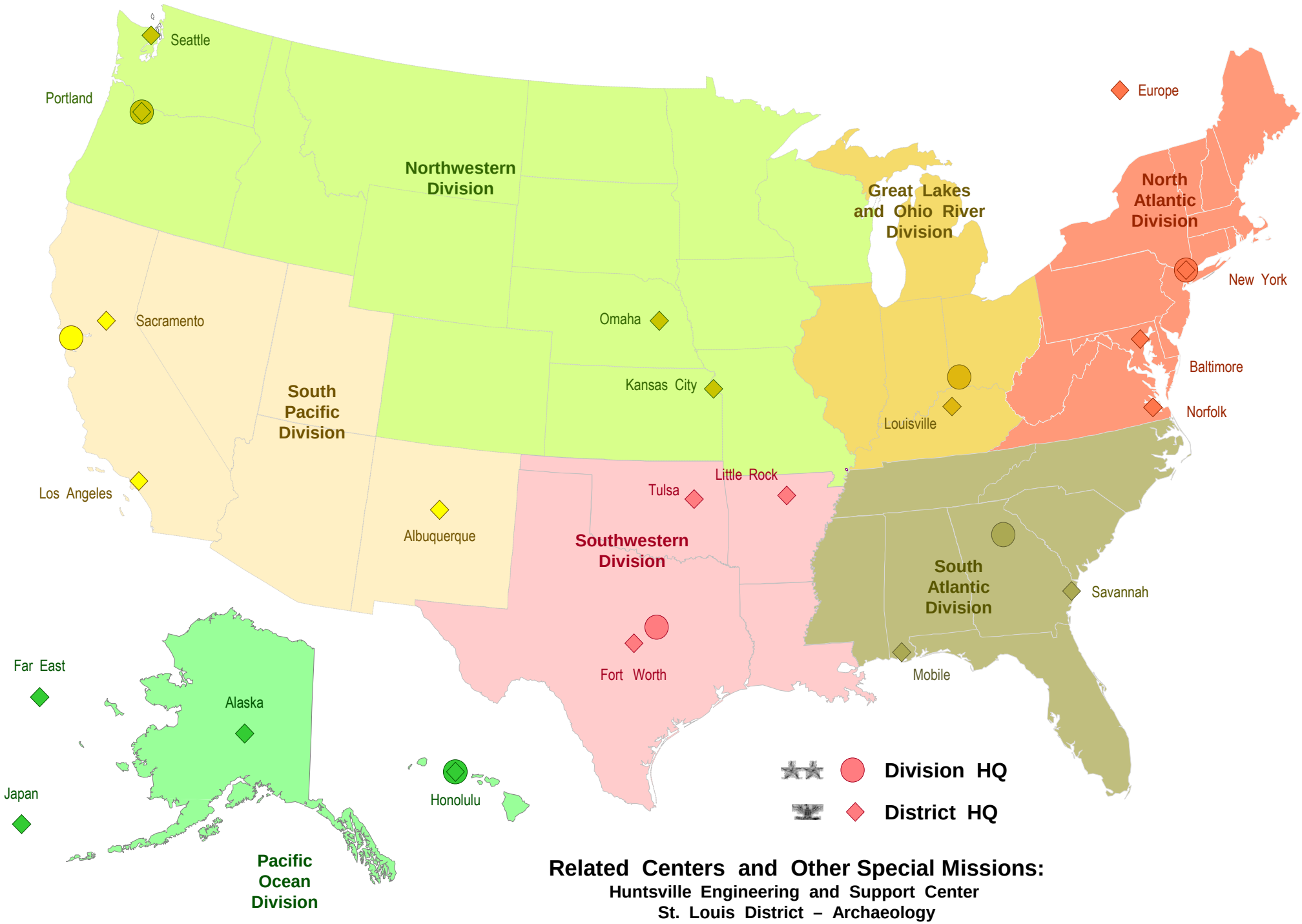
River + Dike = Political Order

USACE Military Missions



U. S. Army
Corps of Engineers

Military Missions Divisions and Districts



Related Centers and Other Special Missions:

Huntsville Engineering and Support Center
St. Louis District – Archaeology
Mobile District – Panama, Puerto Rico
Transatlantic Division – USACE Deployment Center

USACE Military Missions

Deliver innovative, resilient, and sustainable solutions to the Department of Defense and the Nation.

Military Construction
Army / Air Force

Overseas Contingency Operations (OCO)

Support to Combatant Commands

Installation Support

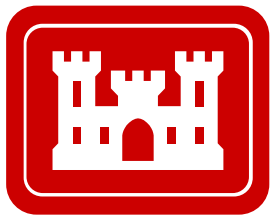
Environmental

Real Estate

Interagency and **International**

Energy and **Sustainability**

USACE Contingency Operations



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Life-Cycle Risk Management

Getting Ready

Actions taken **BEFORE** the event, including planning, training, and preparations.

Flood Risk Management system assessment / inspections

Monitoring / forecasting threats

State and Local Coordination

Reservoir operations

Flood Fight Preparation

The Flood Fight

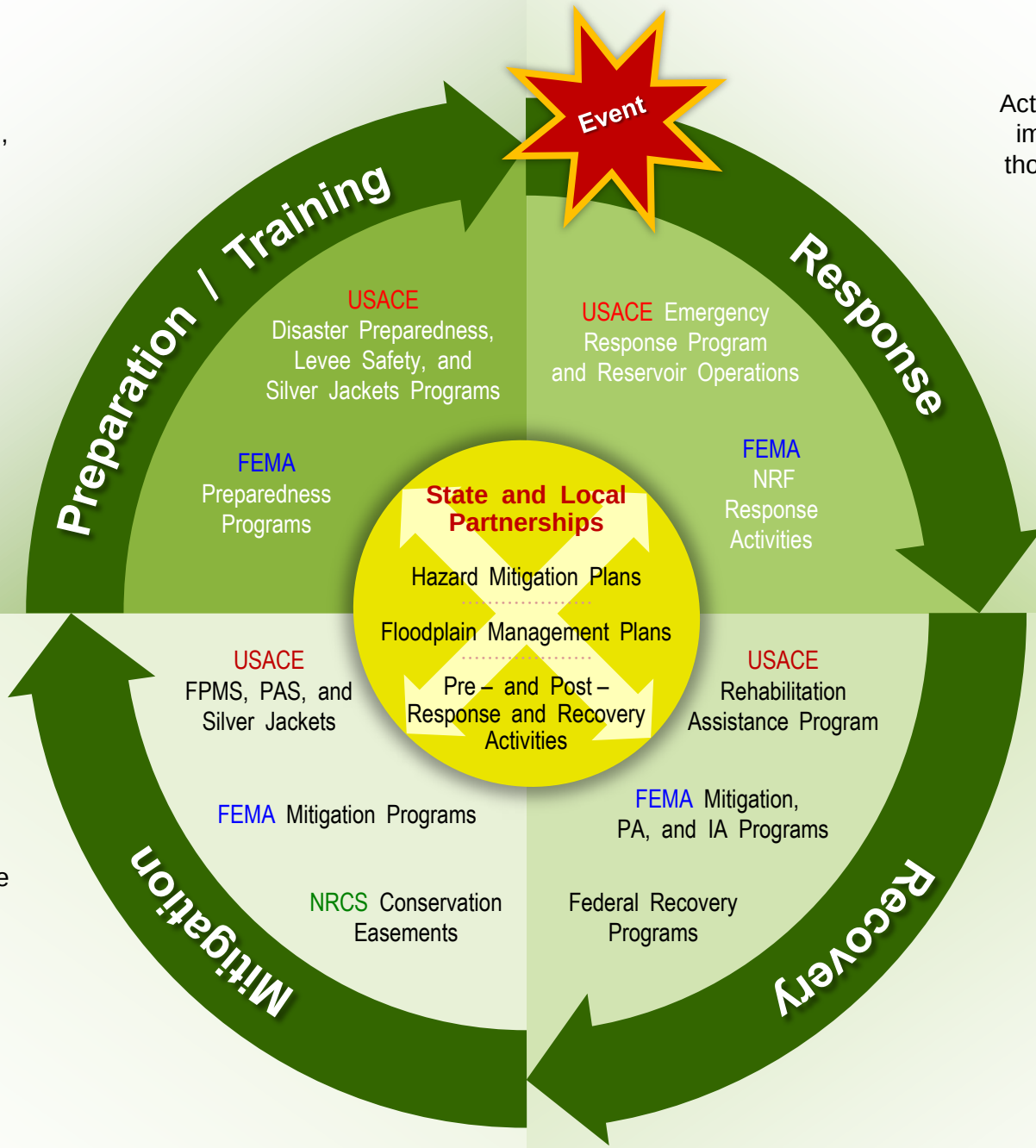
Actions taken **DURING** the initial impact of a disaster, including those to save lives and prevent further property damage.

Emergency system strengthening

Monitor and report flood impact

Monitor system performance

Support State / Local FF



Driving Down the Risks

Activities that **PREVENT** a disaster, reduce its chance of happening, or reduce its damaging effects.

Modify mitigation plans

Identify future mitigation opportunities

Develop system improvements

Getting back on our feet

Actions taken **AFTER** the initial impact, including those directed toward a return to normalcy.

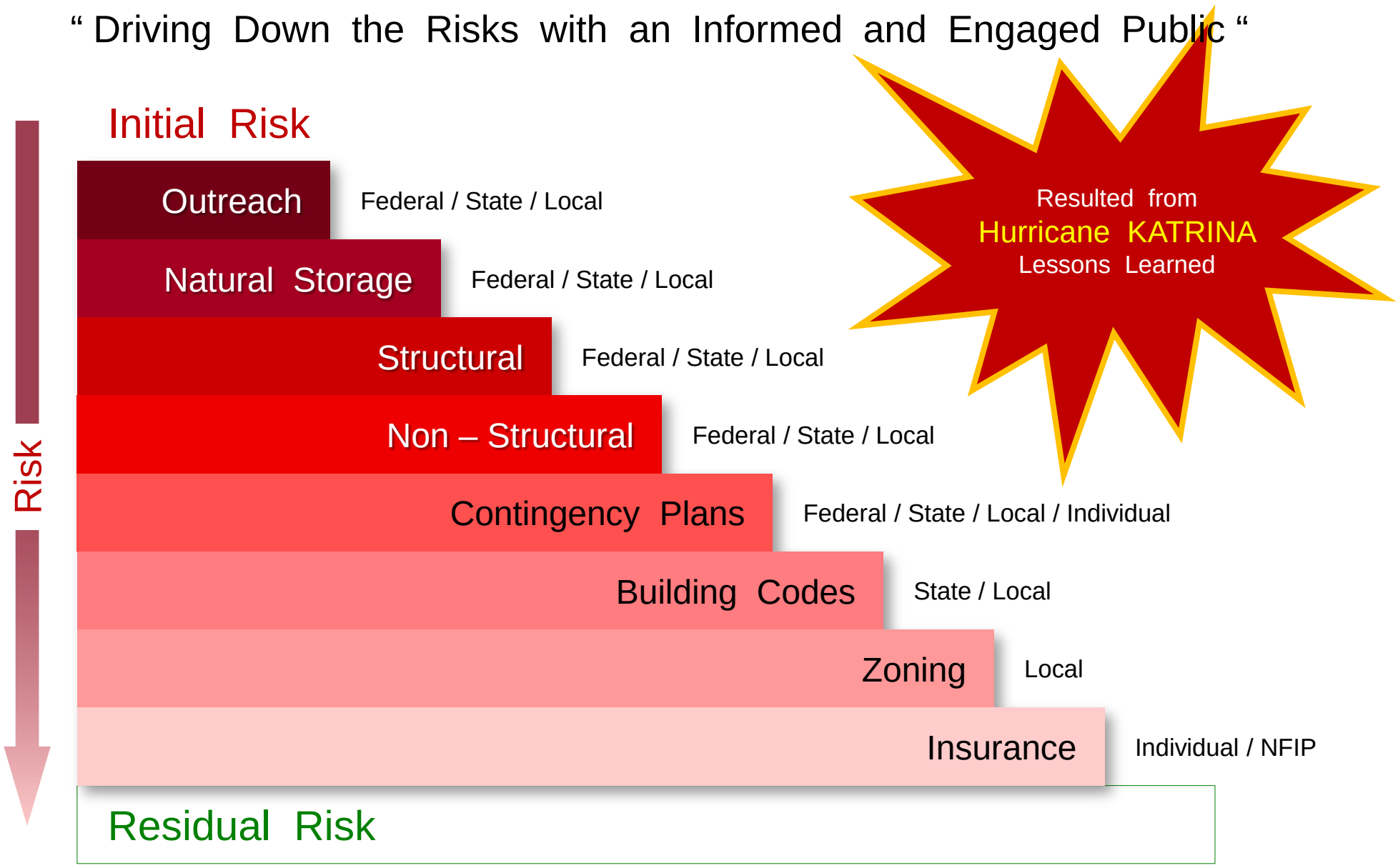
Repair damaged systems

Assess and document system performance

Implement mitigation measures / system improvements

Shared Disaster Risk Management

"Driving Down the Risks with an Informed and Engaged Public"



All Stakeholders contribute to reducing risk !

National Flood Risk Management

Vision

Lead collaborative, comprehensive and sustainable national flood risk management to improve public safety and reduce flood damages to our country

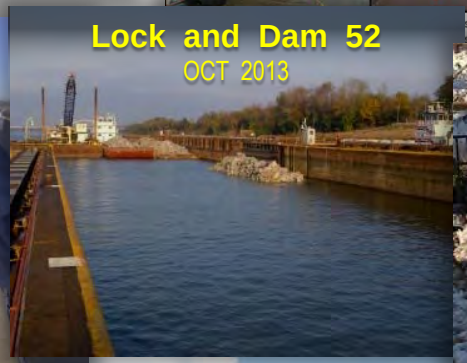
Mission

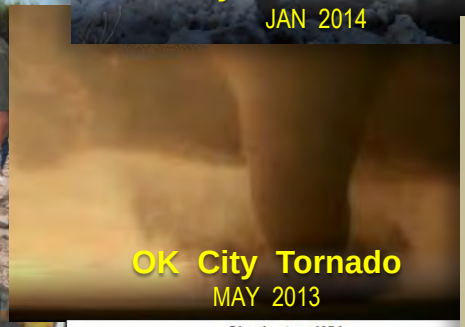
Integrate and synchronize USACE flood risk management projects, programs, and authorities with counterpart projects, programs, and authorities of other Federal agencies, state organizations, and regional and local agencies

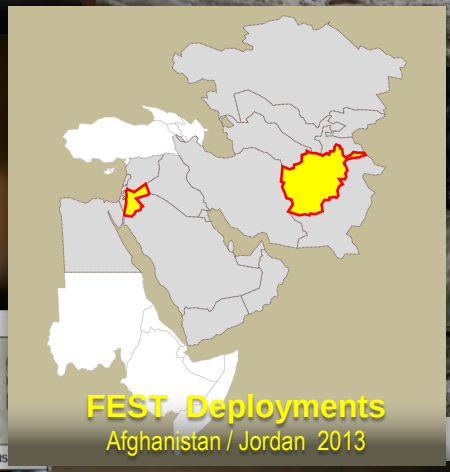
Strategic Goals

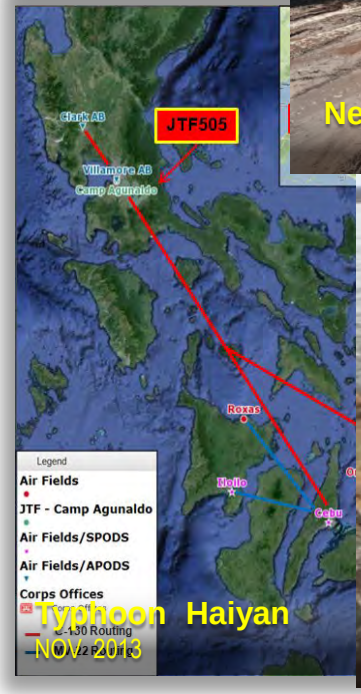
- Provide current accurate floodplain information to the public and decision makers
- Identify and assess flood hazards posed by aging flood damage reduction infrastructure
- Improve public awareness and comprehension of flood risk
- Integrate flood damage / hazard reduction programs across local, state, and Federal agencies
- Improve capabilities to collaboratively deliver and sustain flood damage reduction and flood hazard mitigation services to the nation

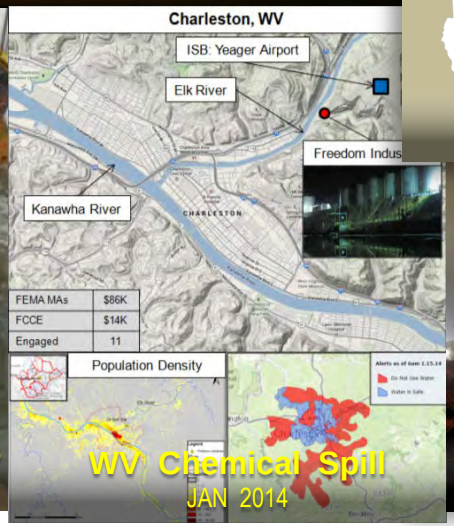
Key 2013 / 2014 Responses

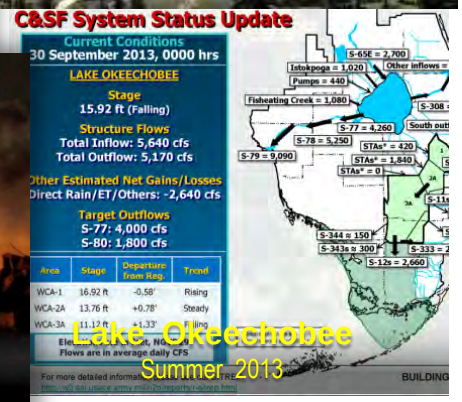












The Tale of Two Storms . . . Katrina and Sandy

Pre-Katrina "System" 2005

50% complete after 50 years

$130 B in Recovery Costs

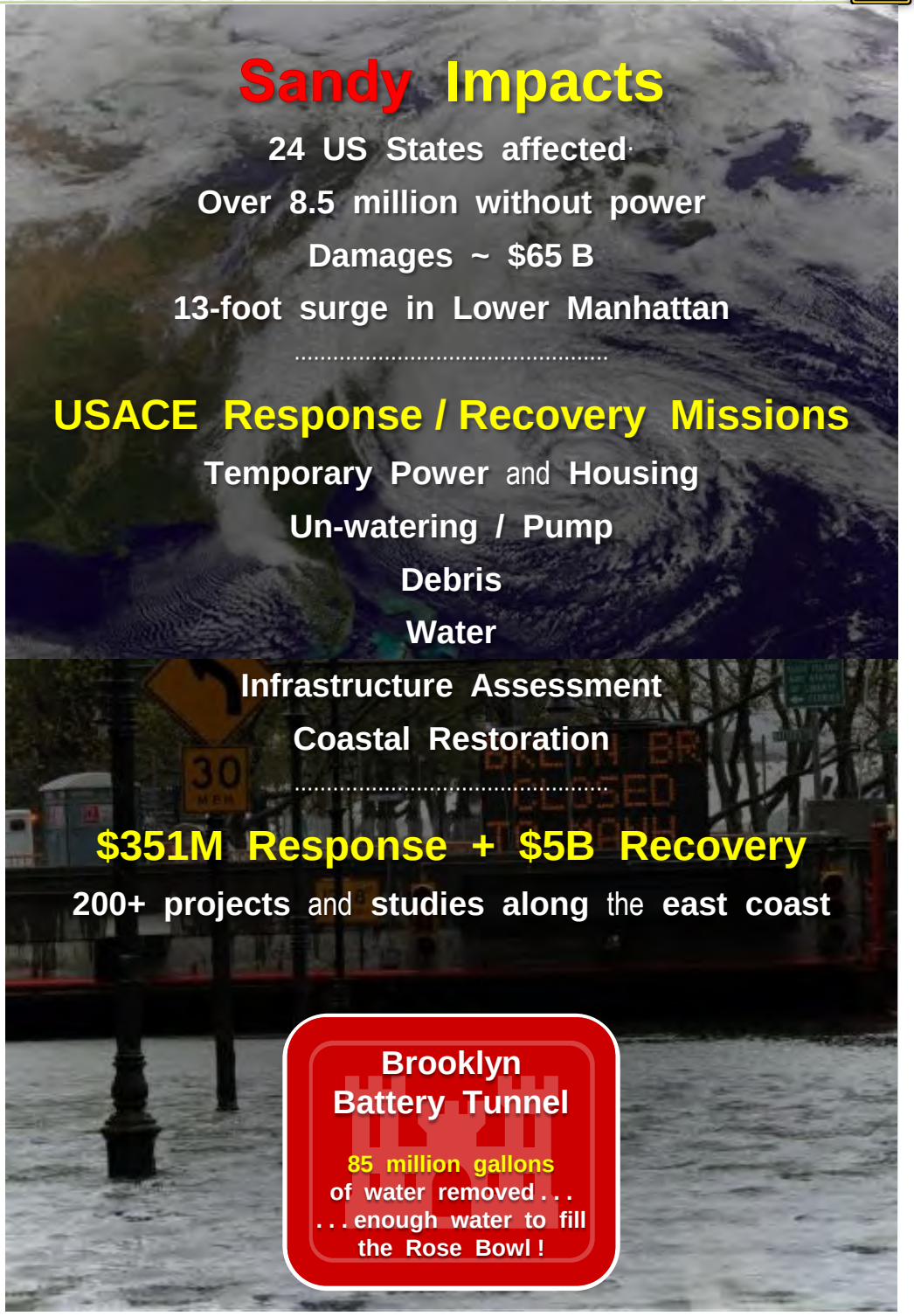
1500 Lives Lost

New Orleans Before and After Katrina

$14B Post-Katrina System

Designed and Constructed in 6 years

Performed Successfully during Hurricane ISAAC



Sandy Impacts

24 US States affected

Over 8.5 million without power

Damages ~ $65 B

13-foot surge in Lower Manhattan

USACE Response / Recovery Missions

Temporary Power and Housing

Un-watering / Pump

Debris

Water

Infrastructure Assessment

Coastal Restoration

$351M Response + $5B Recovery

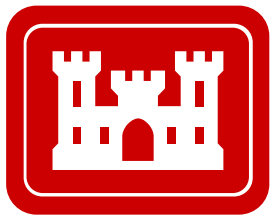
200+ projects and studies along the east coast

Brooklyn Battery Tunnel

85 million gallons of water removed . . .

. . . enough water to fill the Rose Bowl !

USACE Research and Development



U. S. Army
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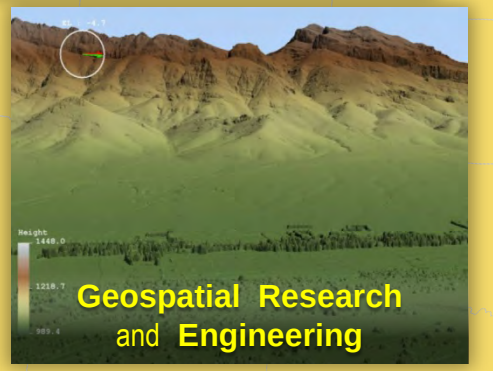
Engineer Research and Development Center



Cold Regions Research and Engineering Laboratory
Hanover, NH

Construction Engineering Research Laboratory
Champaign, IL

Geospatial Research Laboratory
(Army Geospatial Center)
Alexandria, VA

ERDC Headquarters
Vicksburg, MS

Coastal and Hydraulics Laboratory
Environmental Laboratory
Geotechnical and Structures Laboratory
Information Technology Laboratory

$1.3 B Annual Program

2500 Employees
(1800 Full Time Federal / > 1,000 Scientists and Engineers / 32% PhDs / 44% MS degrees)

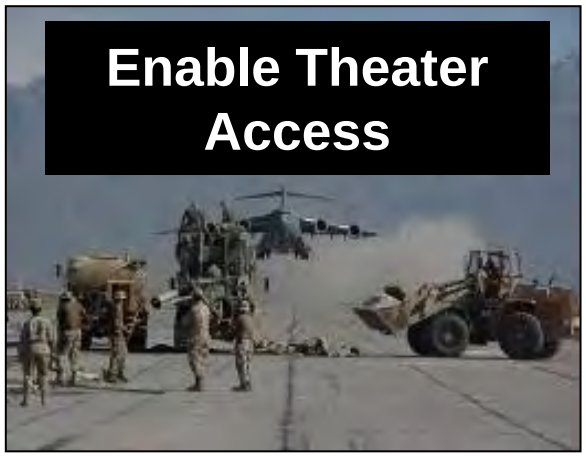
$1.2 B Unique Research Facilities / Equipment

77 Active Patents

Laboratories Field Offices

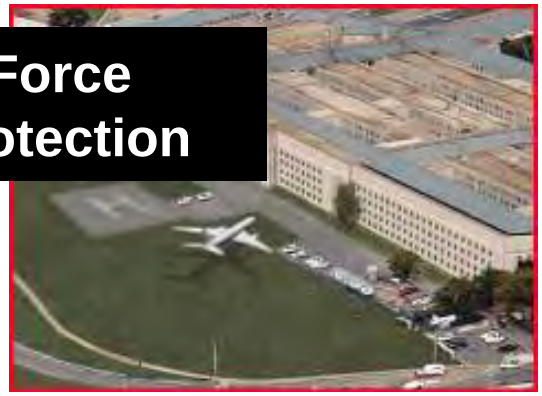
Support to the Army and the Nation, Leveraging Technical Engineer Capabilities with R&D

Enable Theater Access



Rapid Airfield Construction

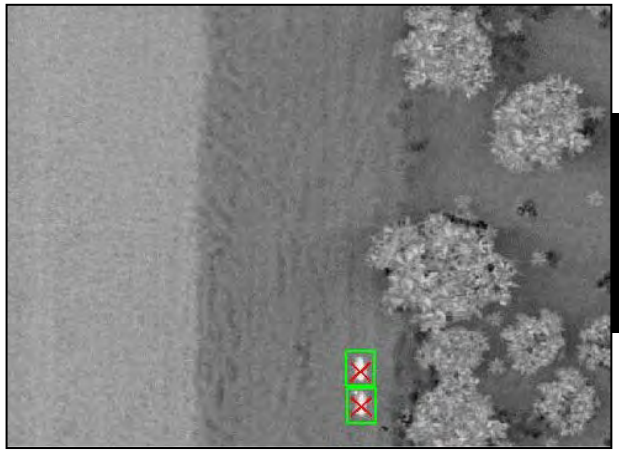
Force Protection



Structural **Retrofit**

Immune Buildings

Counter Rocket, Artillery & Mortar

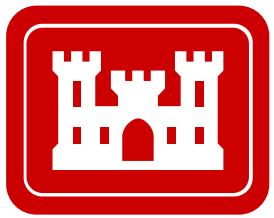


IED Simulation and Detection

Countermine Phenomenology

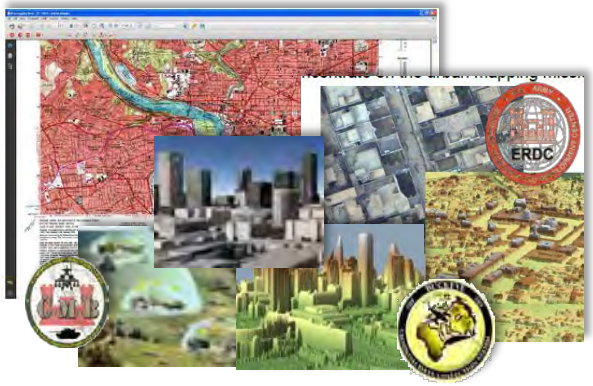
Countermine Phenomenology Test bed

Army Geospatial Center

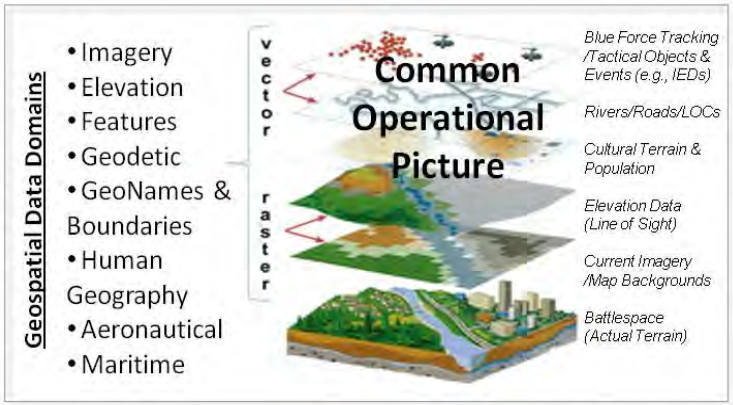


U. S. Army
Corps of Engineers

Mission: **The AGC provides timely, accurate and relevant geospatial information, capabilities and domain expertise for Army Geospatial Enterprise implementation in support of full spectrum operations.**



Soldier Geospatial Support and Production
(Terrain and Water Resources)



Enterprise Development and Support

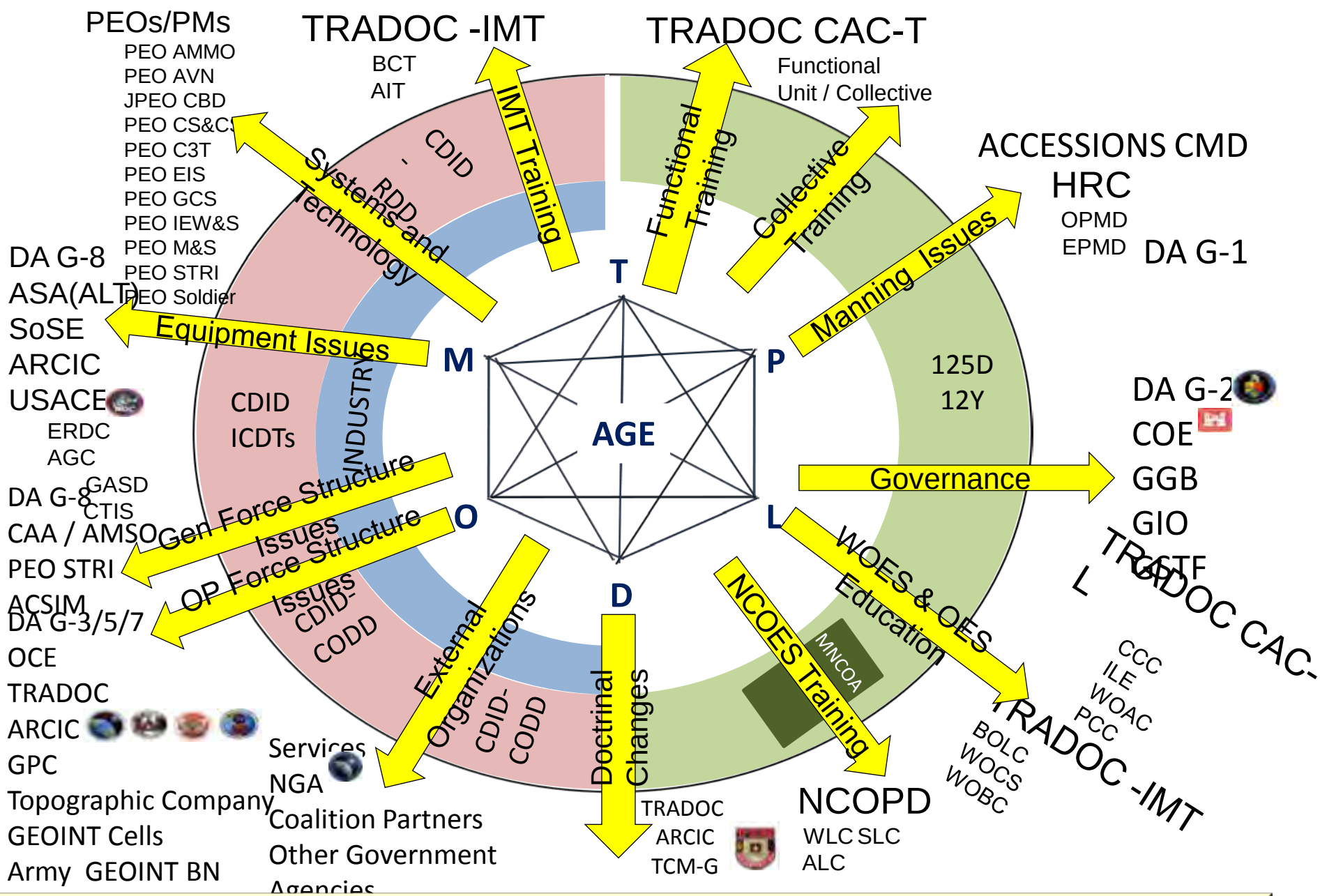
Geospatial Engineering Research, Development, Technology and Evaluation

Tactical Source and Enterprise Solutions

Connections

- Divisions/ Districts
- GEOINT Cells
- ARSTAF
- Special Operations
- GPCs, Topographic Teams
- ASA(ALT) OCSE
- PEO I, STRI, IEWS, and C3T
- TRADOC(ARCIC)
- TCM Geospatial
- TCM Sensor Processing
- ASPO
- CTSF
- SMDC
- OSD AT&L /HSCB
- NGA
- USAID
- Marine Corps

Systems Acquisition and Program Management



A complex environment with many stakeholders and various lines of effort
ALL working together to move the AGE implementation forward

Shaping Our Future

U. S. Army
Corps of Engineers

Perception vs. Reality





Responsive

Joint

International

"Life Cycle"

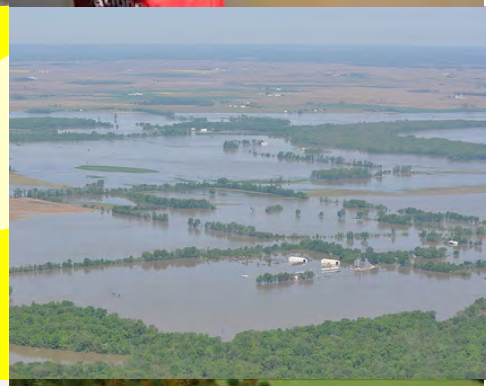
Community Members

Interagency

Anticipatory

"Full – Service"

"Solutioneers"




Expensive

Doesn't Communicate

Slow

Can't Be Trusted

Bureaucratic

Arrogant

Self- Absorbed





Battling Perception vs. Reality With "Targeted" Outreach

GLMRIS Report
Public Information Campaign / Chicago

Lake Tahoe Summit
Capabilities Display / South Pacific Division

Leaders Emeritus
Strategic Engagement / HQ USACE

"First Pitch"
Recreation Safety / Springfield, MO

- Responsive
- Joint
- "Life Cycle"
- International
- Community Members
- Anticipatory
- Interagency
- "Solutioneers"
- "Full – Service"

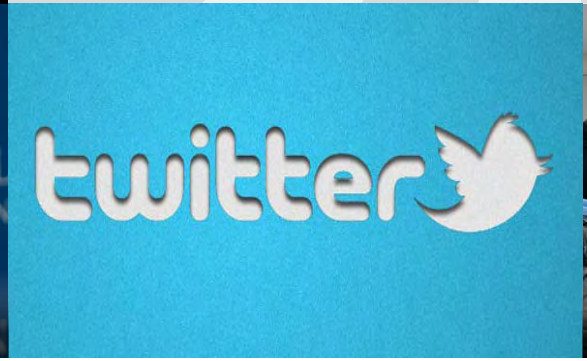
John Day Lock and Dam
Water Safety / Oregon

Media Outreach
Talk Show / Albuquerque, NM

- Expensive
- Slow
- Bureaucratic
- Arrogant
- Doesn't Communicate
- Can't Be Trusted
- Self- Absorbed

Civil Works Budget
Press Conference / USACE HQ

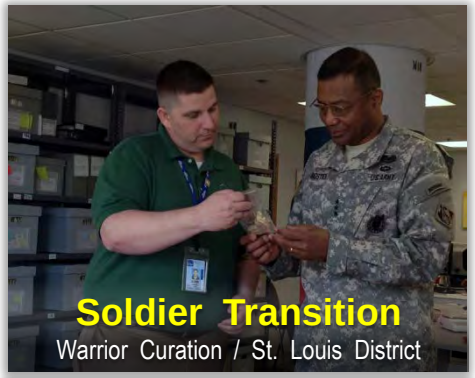
National Press Club
Hurricane SANDY Update / Washington, DC



Lake Isabella Dam
Property Owners Public Meeting / Sacramento

Foreign Press Center
USACE Overview / Washington, DC

Talent Management



Plan Shape the workforce by managing skills / knowledge

Workload – Workforce Balancing / Competency Management (CoPs)

Recruit Win the war for talent by getting the right person in the right job

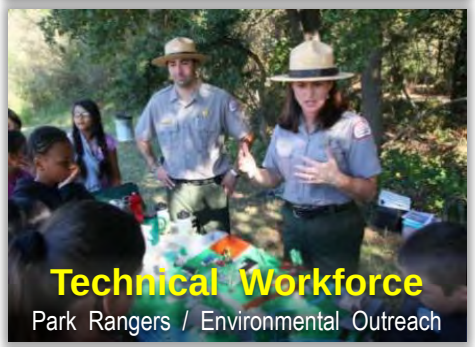
Diversity / STEM Outreach / Wounded Warriors / Soldier Transition

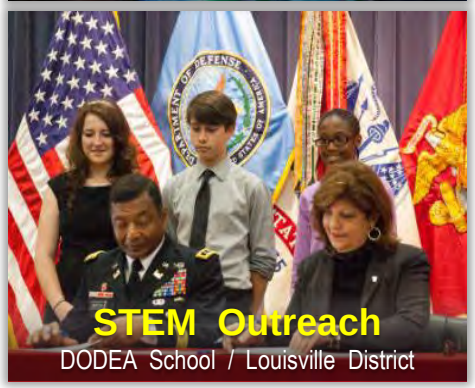
Develop Shape the workforce by providing enrichment opportunities

Technical Workforce / Leader Development / Emerging Leaders

Retain Prevent talent loss by valuing employee contributions

Performance Management / Family Readiness / Knowledge Management





Questions ?

Speaker

Title

U. S. Army Corps of Engineers

Date

US Army Corps of Engineers

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