

CA Marine Affairs and Navigation Conference

Civil Works Transformation and What it Means for Investment in Water Resources

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US Army Corps of Engineers
BUILDING STRONG®



U.S. Army Corps of Engineers

250 Years of Building the Nation – From Military to Civil Works

1st Army Engineer Mission



**American Revolution
Battle of Bunker Hill, 1775**

1st Engineering School



**U.S. Military Academy
West Point, 1802**

Exploring the West



**Fremont Expedition
1842**

Capitol Construction



**Library of Congress
1897**

Disaster Recovery



**San Francisco Quake
1906**

International Commerce

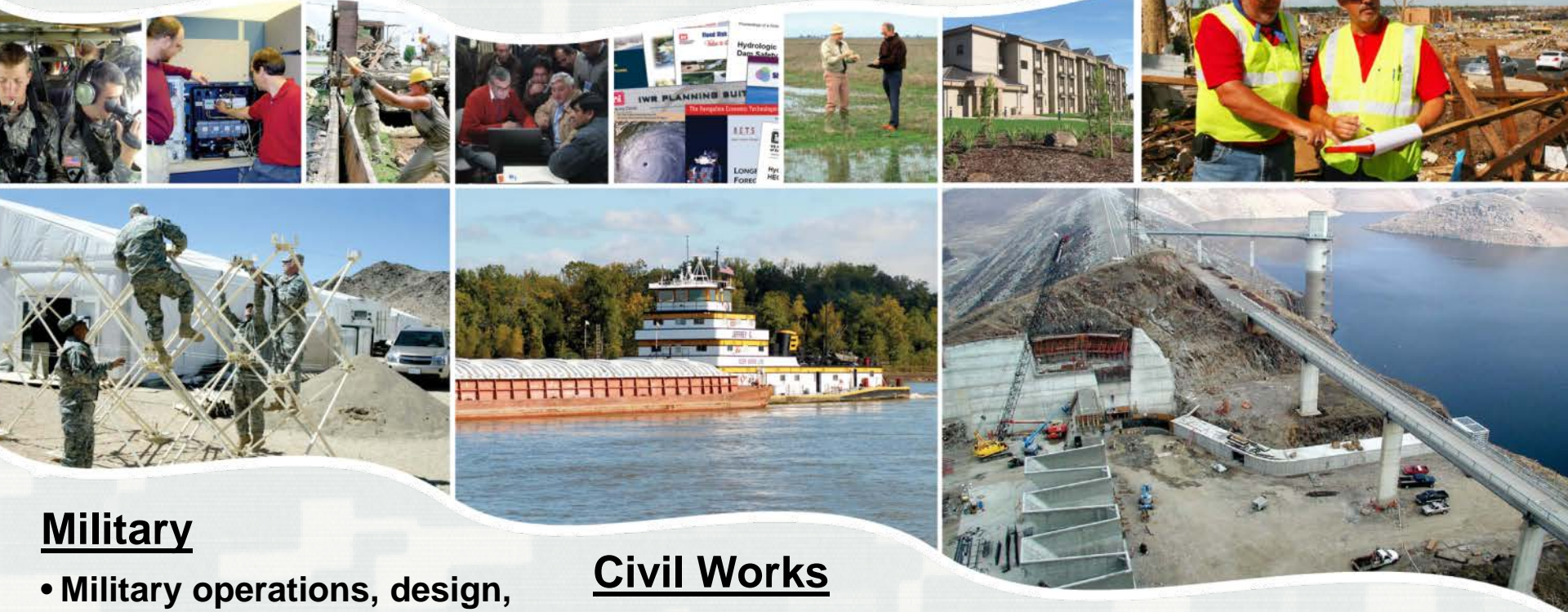


**Panama Canal
1912**



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The US Army Corps of Engineers Our Business



Military

- Military operations, design, construction, science and engineering
- Interagency & International Support Programs
- Real estate acquisition & disposal

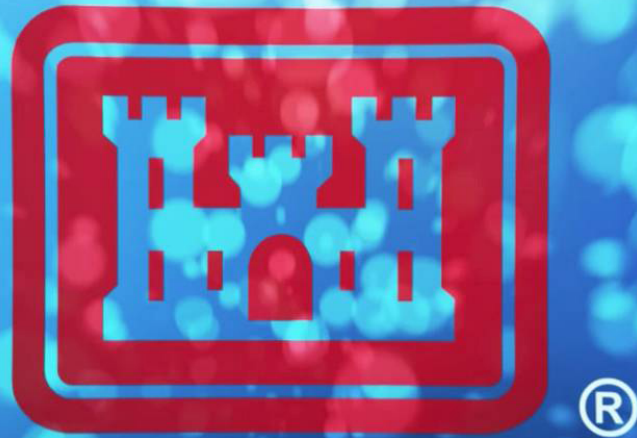
Civil Works

- Water Resources Development
- Navigation
- Flood risk reduction
- Environmental stewardship & restoration
- Regulatory Permits

Disaster Response

- Sustain lives
- Flood fight
- Assess & restore critical infrastructure
- Support recovery

Securing Our Nation's Future Through Water



Our Vision

“ Engineering Solutions for the Nation’s Toughest Challenges ”

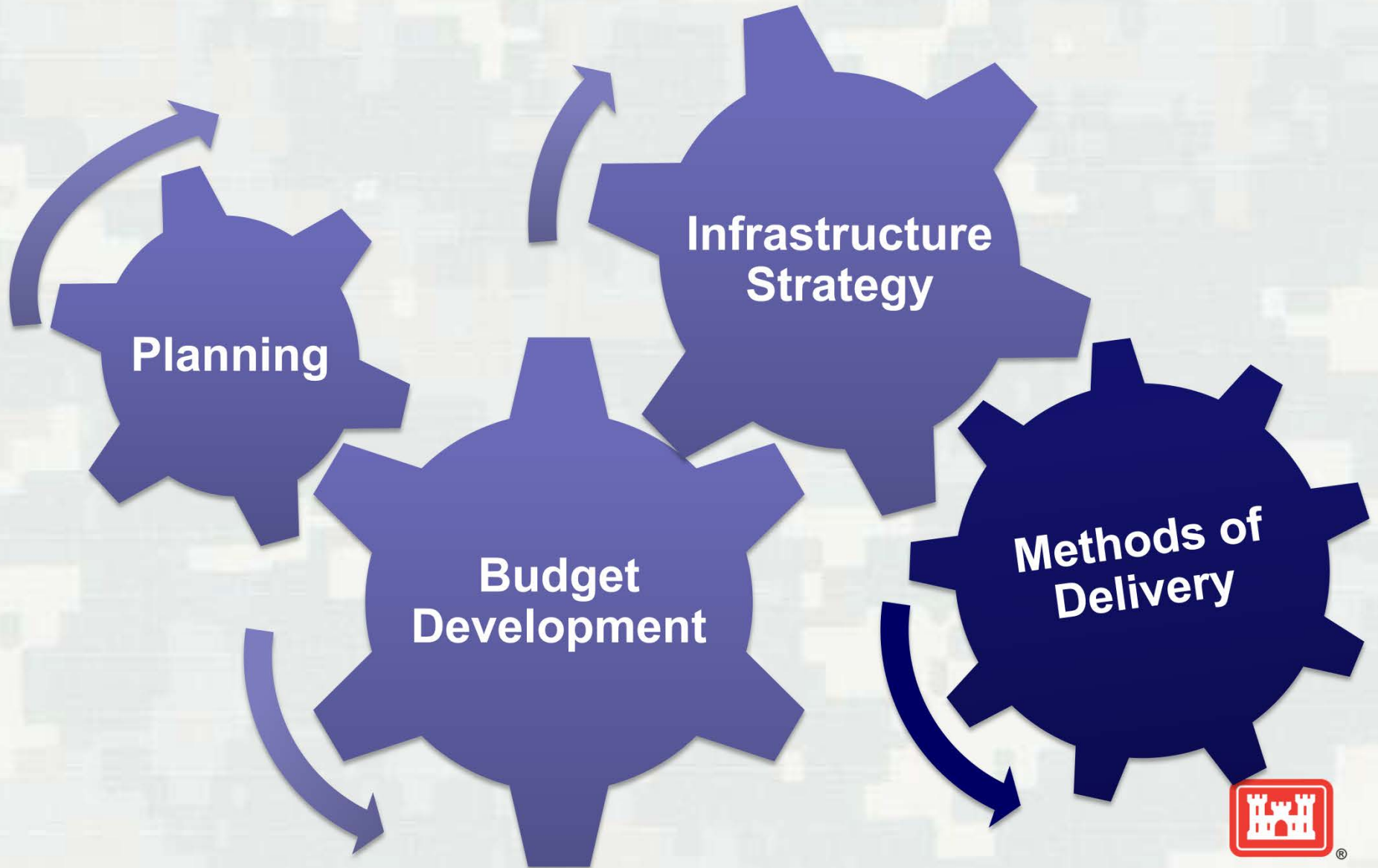
USACE CAMPAIGN PLAN GOALS

- 1) Support the Warfighter**
- 2) Transform Civil Works**
- 3) Reduce Disaster Risks**
- 4) Prepare For Tomorrow**

Civil Works Infrastructure Transformation Strategy

1. Enhance the budget process
2. Modernize the planning process
3. Improve methods of delivery
4. Smart infrastructure asset management

Civil Works Transformation



Budget Development



USACE Civil Works budget is an investment in the Nation's economy, security, and quality of life – now and in the future.

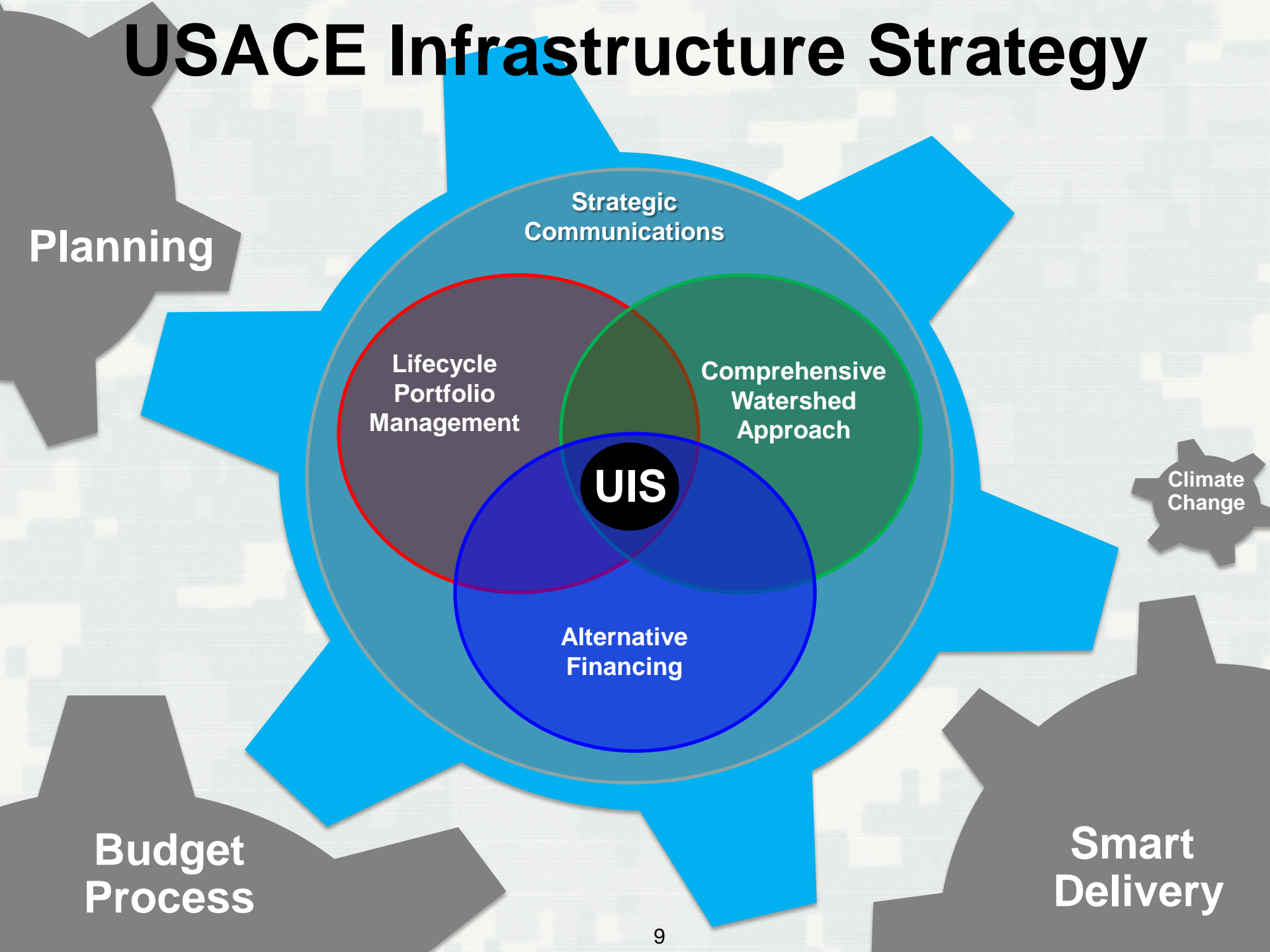
- ✓ Change from a project-centric to a systems-based watershed approach
- ✓ Focus on National goals & objectives
- ✓ Ensure the Nation's most critical current & future infrastructure needs are met
- ✓ Prioritize investment based on project value and level of service
- ✓ Maximize the public benefits from return on investment

Planning Modernization

- Reduce cost and time to complete feasibility studies (3 years and \$3 million maximum)
- Review ongoing studies – drop those unlikely to lead to projects
- Instill Integrated Water Resource Management into planning process
- Instill accountability at all levels
- Improve planner knowledge and experience (build the bench)
- Modernize planning guidance



USACE Infrastructure Strategy



Methods of Smart Delivery

- Relook our methods to make them more efficient, cost-effective & timely
- Link technical capabilities to desired levels of service
 - Maintain core competencies
 - Improve operation and management of our water infrastructure
- Centers of Expertise (CXs):
 - Dam safety
 - Inland navigation design
 - Deep draft navigation economics



A Systems-Approach to Sustainable Water Management

Advances a strategic systems view

Integrates water resources stakeholders and goals

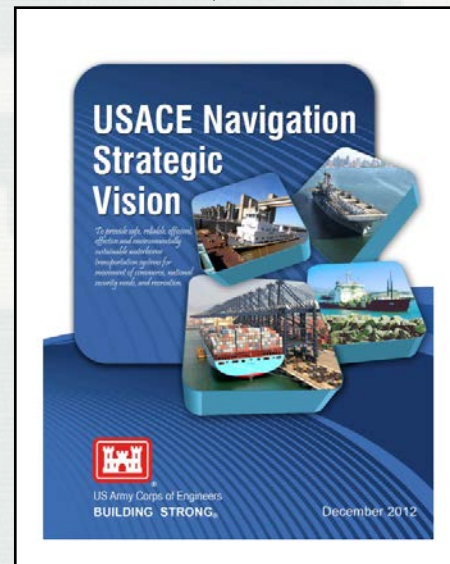
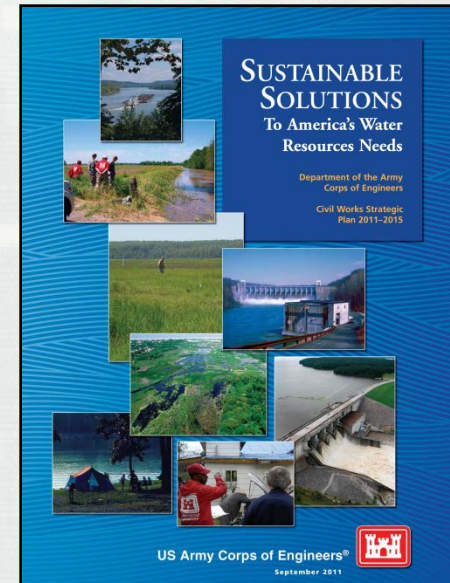
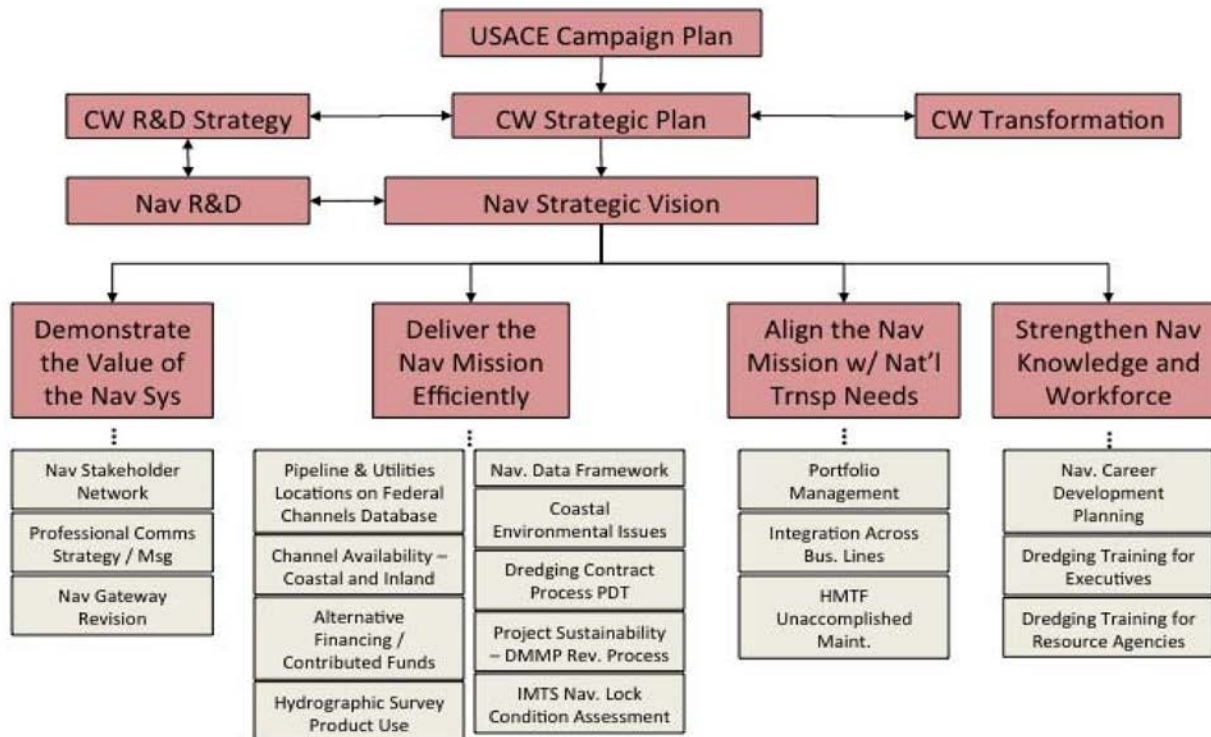
Proactively identifies water resources issues

Streamlines water resources management processes

Aligns programs and resources for efficiency

Scopes future water needs and opportunities at a watershed level

Strategic Navigation Initiatives



Example of Alignment

USACE Campaign Goals



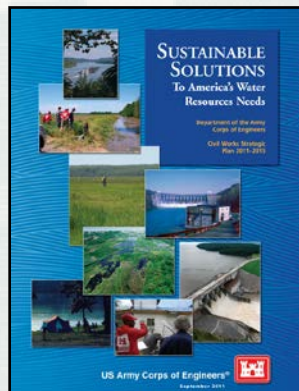
Goal	Objective	Key Performance Indicator	Responsible Office	Due Date
Goal 1: Provide safe and resilient communities and infrastructure	1.1. Assess and evaluate the status of all USACE projects and identify interdependencies supporting Marine Transportation System (MTS).	1.1.1. Evaluate status of all USACE projects and identify interdependencies supporting Marine Transportation System (MTS).	USACE	2015
Goal 2: Deliver reliable, resilient, and sustainable infrastructure systems	2.1. Provide framework and criteria to prioritize Navigation infrastructure investments.	2.1.1. Provide framework and criteria to prioritize Navigation infrastructure investments.	USACE	2015
Goal 3: Manage and maintain Navigation assets using regional approach that supports national priorities	3.1. Evaluate status of all USACE projects and identify interdependencies supporting Marine Transportation System (MTS).	3.1.1. Evaluate status of all USACE projects and identify interdependencies supporting Marine Transportation System (MTS).	USACE	2015

Goal 2d: ***Transform Civil Works***

- Deliver reliable, resilient, and sustainable infrastructure systems.

Objective 3: ***Navigation Integration and Freight Movement*** –

- Evaluate status of all USACE projects and identify interdependencies supporting Marine Transportation System (MTS).
- Provide framework and criteria to prioritize Navigation infrastructure investments.
- Manage and maintain Navigation assets using regional approach that supports national priorities.



**Civil Works
Strategic Plan**

Civil Works Goal 1: ***Assist in Providing Safe and Resilient Communities and Infrastructure***

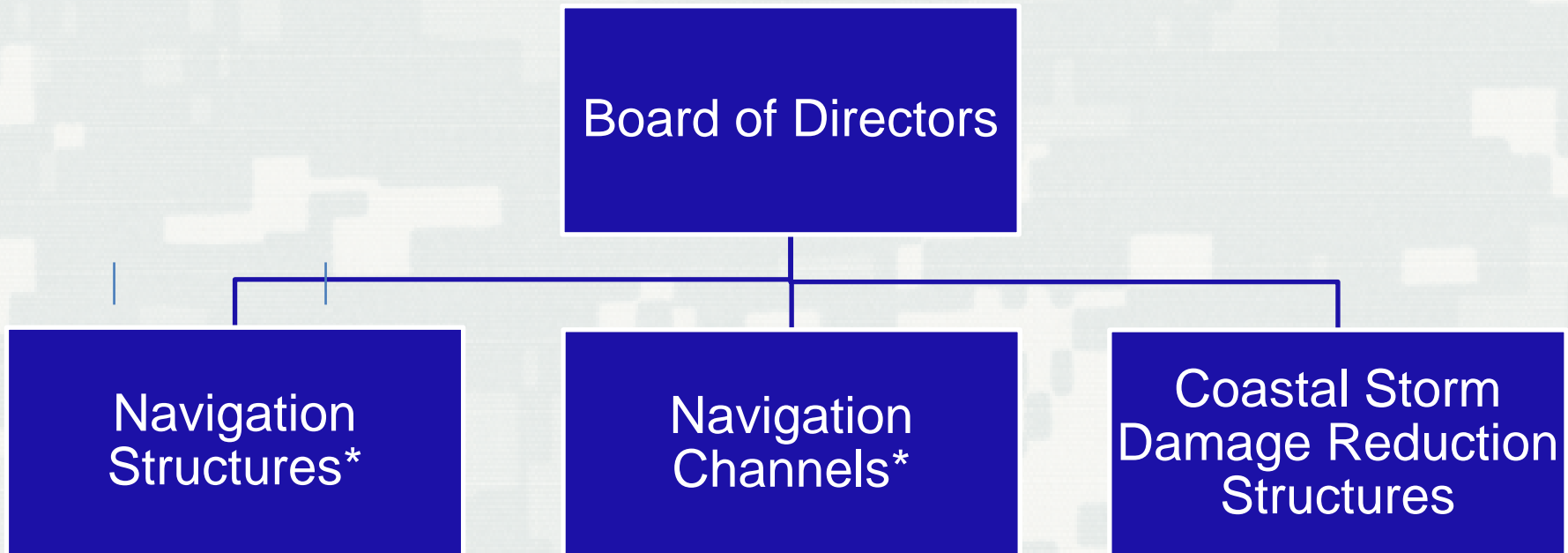


**Navigation Strategic
Vision**

Strategic Navigation Initiatives Obj. 3 – Navigation Integration and Freight Movement

3.2 - Provide the framework and criteria to prioritize USACE Navigation infrastructure modernization investments

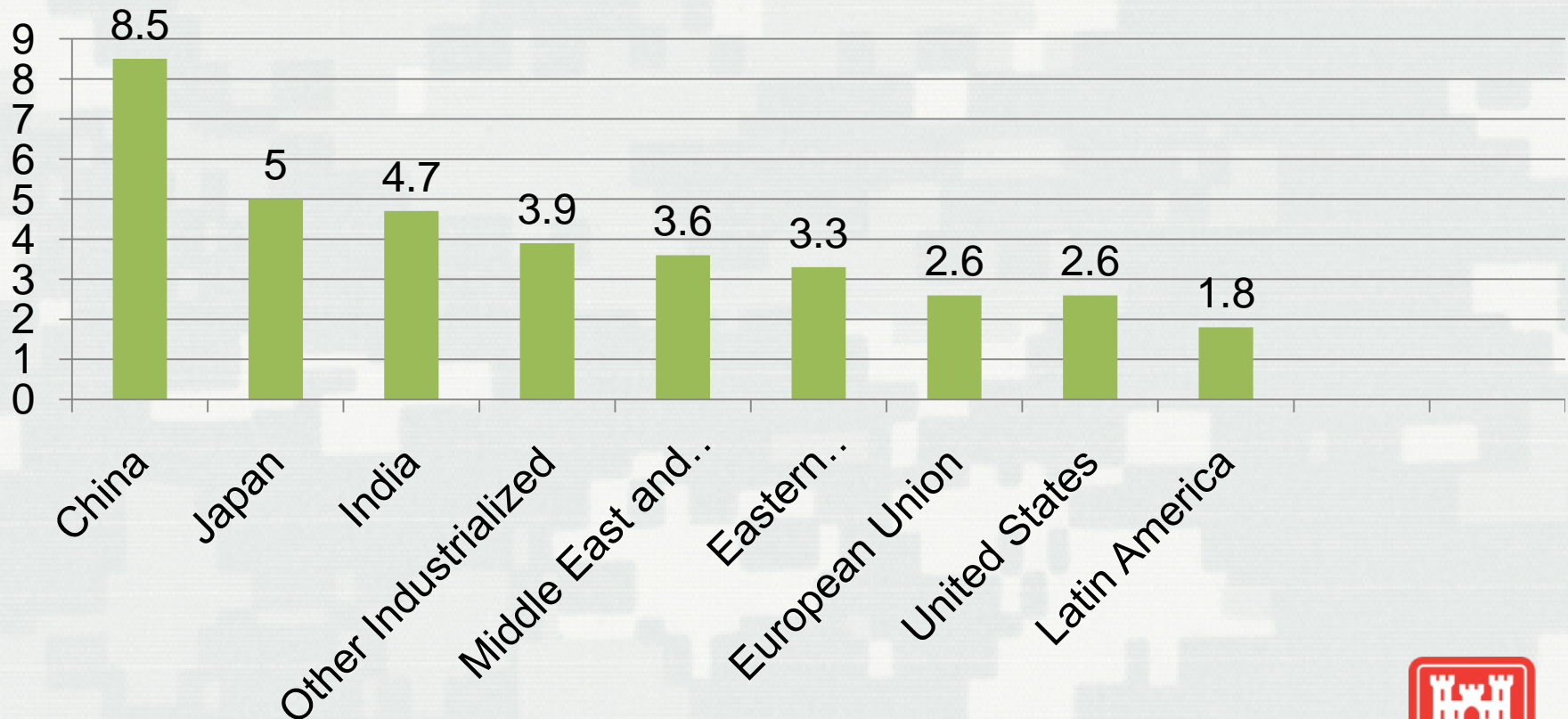
Coastal Systems Asset Mgmt Project Delivery Team



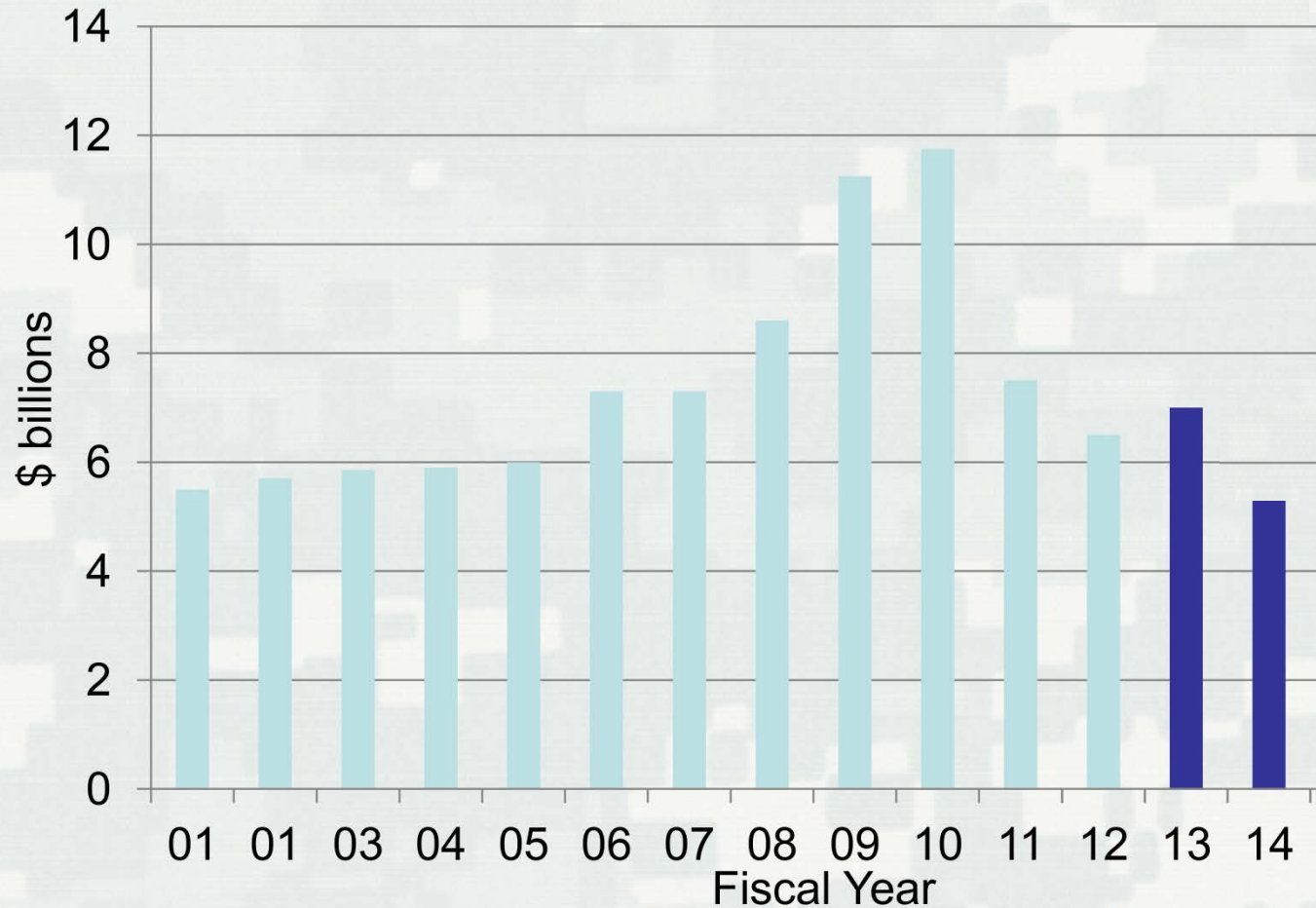
* Only those funded by Harbor Maintenance Trust Fund

Global Infrastructure Investment

Infrastructure Investment as Percentage of GDP



Historical Civil Works Obligation



NOTE: ~\$25 billion in 10 Supplemental Appropriations from FY05-13



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Partnering to advance our Nation's Waterways



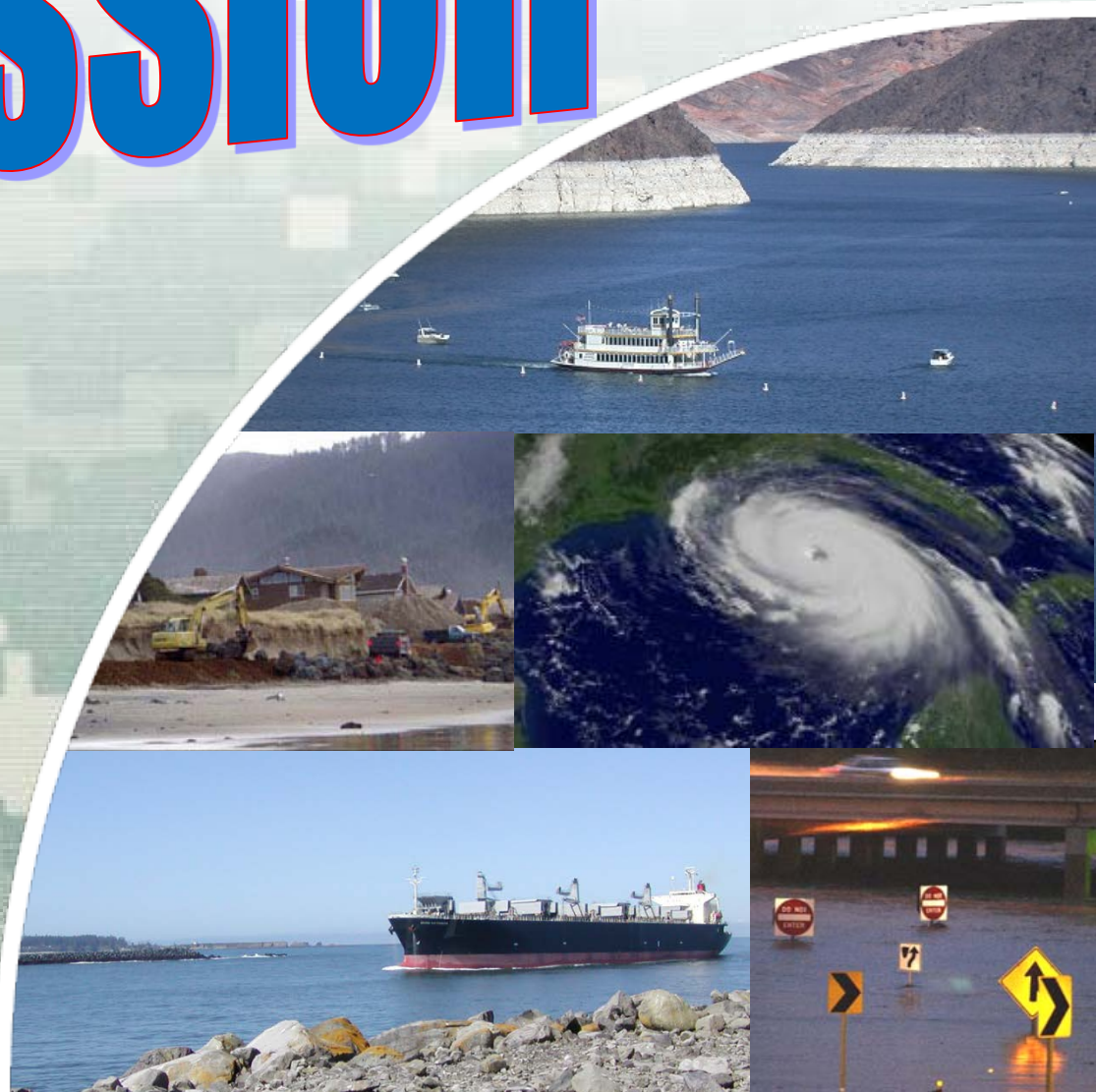
- Tell the Story
- Help us transform the Civil Works process
- Continue to partner with stakeholders, industry and beneficiaries of the system
- Facilitate a Watershed approach
- Help the Nation prioritize efforts and projects

Discussion



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Back Up

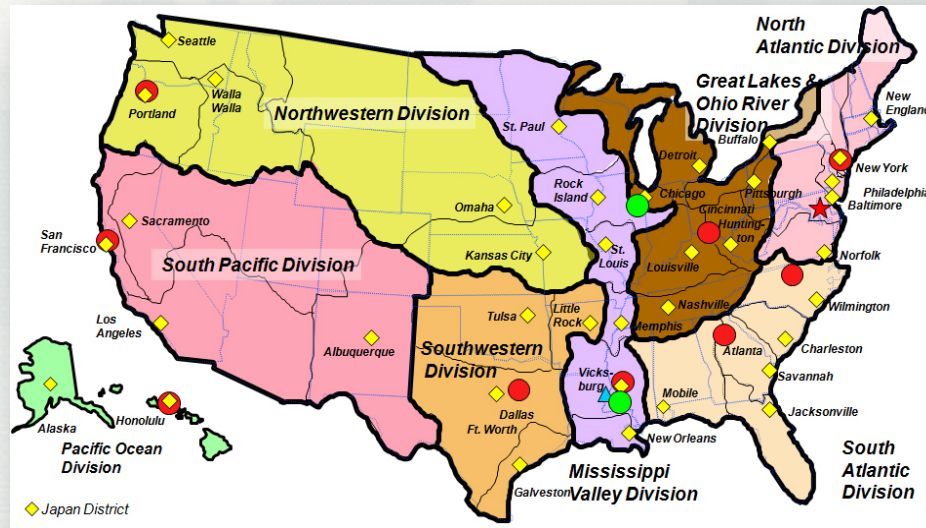


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The US Army Corps of Engineers



By The Numbers

- 9 Divisions, 43 Districts
- \$15B for FY12 Military Program
- \$6B for FY12 Civil Works Program
- 7 Research Laboratories : \$1.5B
- 25K miles of navigable channels
- 195 commercial locks
- 926 harbors; 694 dams
- 4,300 recreation sites

Our Capabilities

- Deliver expertise 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

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

Vision

Engineering solutions to the Nation's toughest challenges

Priorities

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