

CIVIL WORKS OVERVIEW BRIEFING

NATIONAL WATERWAYS CONFERENCE

SEPTEMBER 23, 2021



US Army Corps
of Engineers®

U.S. ARMY CORPS OF ENGINEERS

MISSION

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

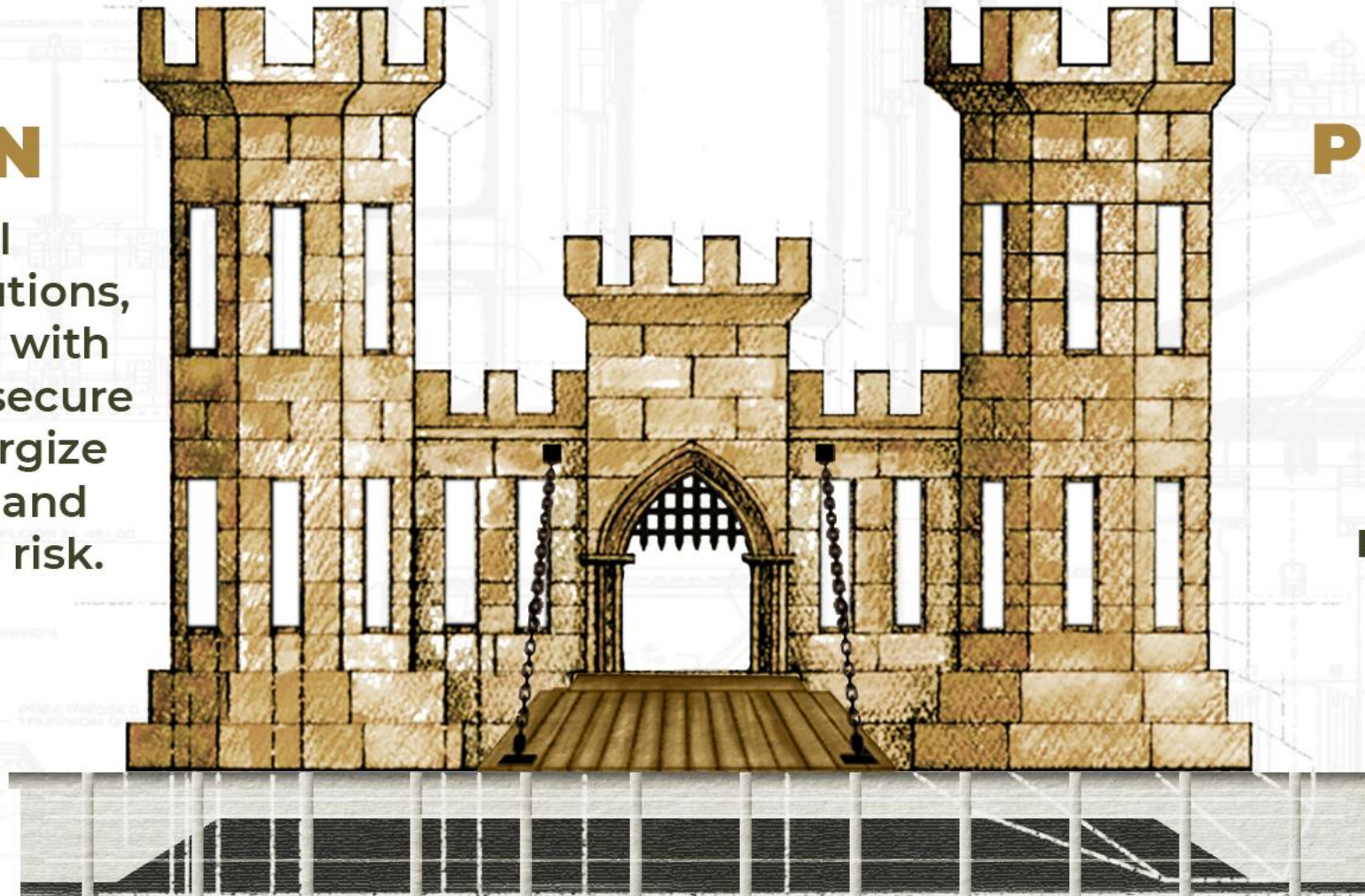
PRIORITIES

PEOPLE

READINESS

PARTNERSHIPS

REVOLUTIONIZE



ENGINEERING SOLUTIONS FOR THE NATION'S TOUGHEST CHALLENGES

What Does **Civil Works** Deliver?



\$1 = \$9

spent on
Flood Risk
Management

prevented
in flood
damages

12K
miles

of commercial inland waterways



2.4M
tons of
cargo



Marine transportation supports


\$2T + 13M
in commerce jobs annually



715  **557**
dams at projects

14,600 
miles of levees

400+
miles 
of shoreline protection

75  **3%**
hydropower plants produce of US Electric energy


Response to
15 

Presidentially declared
disasters (2016)

Outdoor recreation
262 
million visits a year

12M
acres
of public land in 43 states

55K 
permits
issued on average per year

Completed more than **350**

aquatic ecosystem restoration
projects in over 40 states

Improved more than
 **200K**
acres
of aquatic habitat in the last four years

Water supply
6.9B 
gallons per day

 **950**
USACE owned bridges



Section
Menu



Main Menu

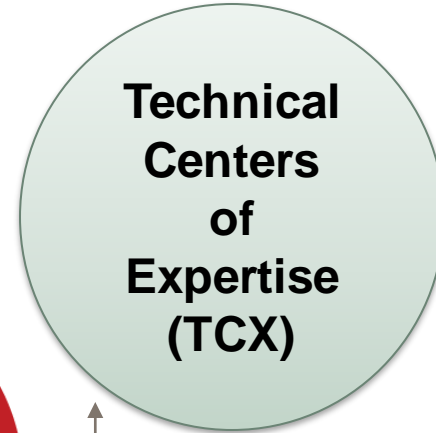


CIVIL WORKS TECHNICAL EXPERTISE

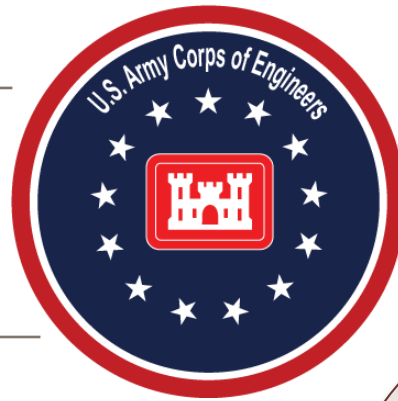
The value of USACE is its technical capability to solve the Nation's toughest challenges



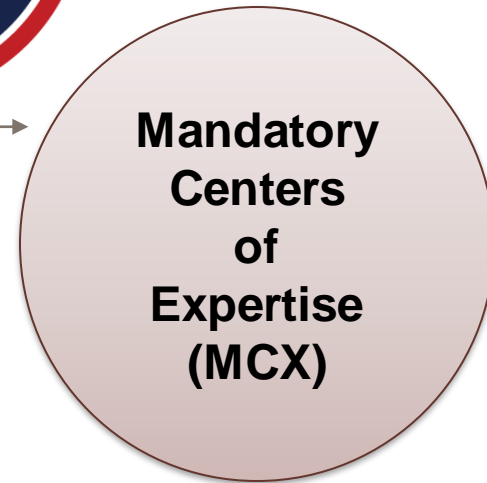
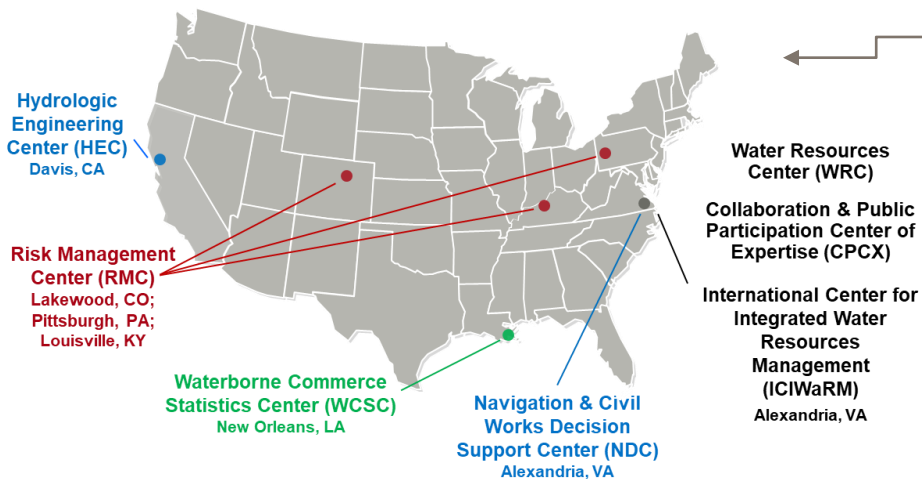
- Deep Draft Navigation Planning Center
- Inland Navigation Planning Center
- Transportation



- Navigation and Civil Works Decision Support Center
- Waterborne Commerce Statistics



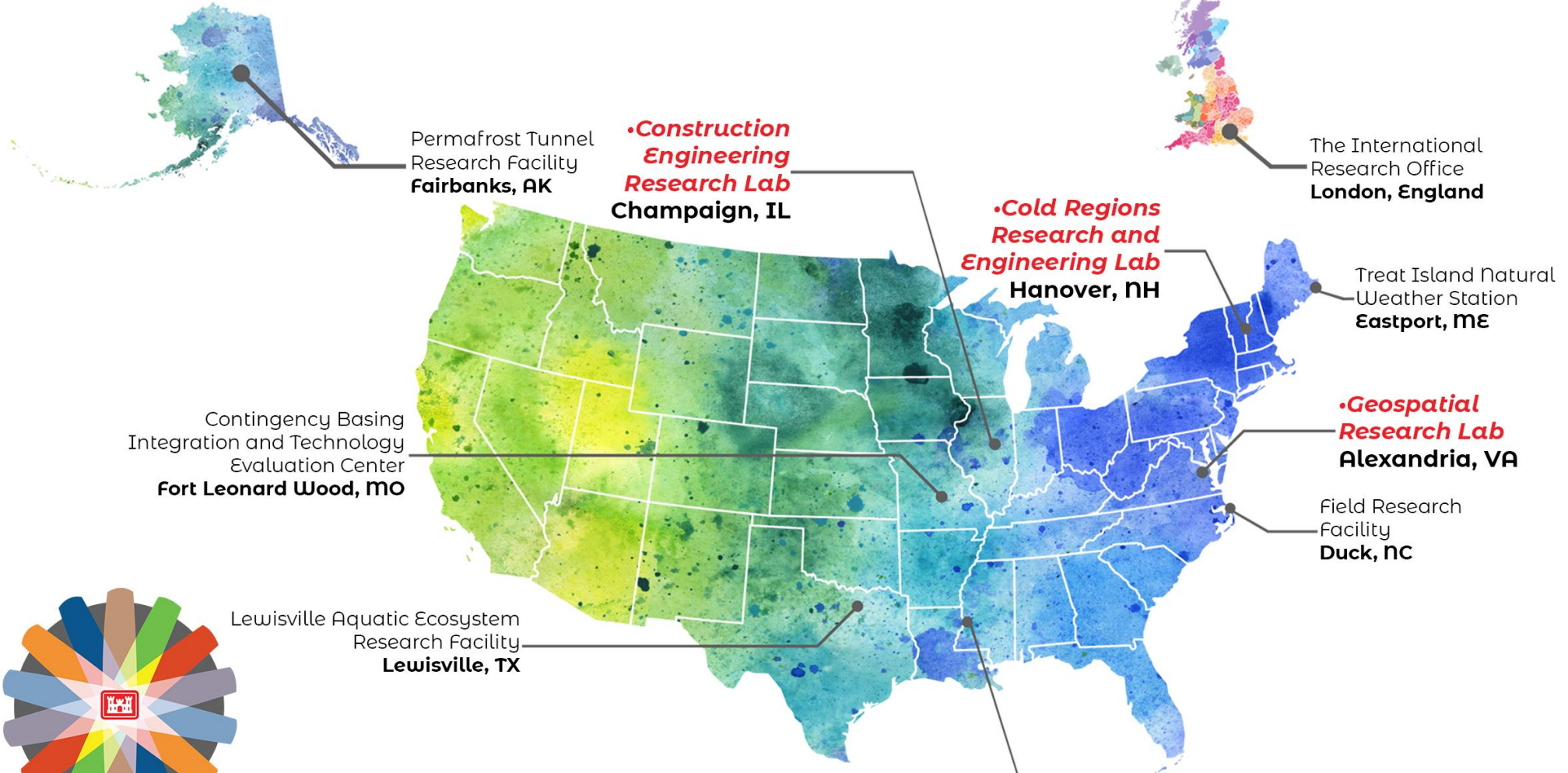
INSTITUTE FOR WATER RESOURCES



- Inland Navigation Design Center
- Marine Design Center
- USACE Critical Infrastructure Cybersecurity (UCIC)



RESEARCH AND DEVELOPMENT



ERDC

ENGINEER RESEARCH & DEVELOPMENT CENTER



CIVIL WORKS DIRECTORATE ORGANIZATION STRUCTURE



LTC Rachel Honderd
Executive Director
(202)761-0101



MG William Graham
Deputy Commanding General,
Civil & Emergency Operations
(202)761-0099



Mr. Alvin Lee
Director of Civil Works
(202)761-0100



Dr. Joe Manous, P.E.
Director
Institute for
Water Resources
(703) 428-7074



Ms. Meg Gaffney-Smith
Interim Chief
Operations & Regulatory
Division
(202)761-8560

Great Lakes & Ohio River
Division &
North Atlantic Division RIT

Navigation, Regulatory,
Natural Resources, Recreation,
Hydropower, and
Asset Management



Mr. Eric Bush
Interim Chief
Planning & Policy
Division
(202)761-0115

Mississippi Valley
Division & Southwestern
Division RIT

Planning Community of Practice,
Office of Water Project Review and
Policy Advisors



Mr. Stephen Hill
Chief
Office of Homeland Security
Director of Contingency Operations
(202)761-4714

Northwestern Division &
Pacific Ocean Division RIT

Flood Risk Management,
PL 84 -99, CIPR, NEPP and
Emergency Management



Mr. Pete Perez
Chief
Engineering &
Construction Division
(202)761-8826

South Atlantic Division &
South Pacific Division RIT

Civil Works Engineering, Dam & Levee
Safety, Military Missions,
Construction, and Value Engineering



Ms. Stacey Brown
Chief
Programs Integration Division
(202)761-4100

Program Development, National Programs,
Project Programs, Future Directions, and
Project & Program Management CoP

**RIT= Regional Integration Team
** CoP = Community of Practice*



Click the Inside the Castle
Icon to open various
Episodes featuring
our leaders



Revolutionize Civil Works




Accelerate Project Delivery

- Focus:**
- Risk Informed Decision Making
 - Delegations
 - Accelerating small projects (CAP)



16 years
Project Time Saved



Leveraged
Partner Capabilities



Transform Project Financing and Budget

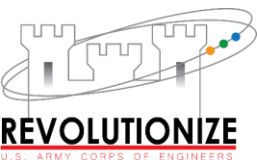
- Focus:**
- Corps Water Infrastructure Financing Program
 - Public Private Partnerships



13 years
Accelerated Delivery by Federal Costs Reduced by



\$175 Million
Reduced




Improve Permitting and Regulation Reform

- Focus:**
- Improved partner/public outreach
 - Regulatory Guidance Letters
 - Modification/reissuance of Nationwide Permits



Improved
Decision-Making



Reduced
Bureaucracy



Proactive Strategic Engagement

- Focus:**
- Proactive engagement and communication activities/tools
 - Enhanced internal Communication/Coordination



Enhanced
Internal/External
Communication



Connected
to over 800+ partners
through PROACTIVE
Engagement Activities



INNOVATIVE FINANCING

USACE Civil Works Public Private Partnerships (P3) Pilot Program

- Currently Three Projects:
 - Fargo-Moorhead Metropolitan Area Flood Risk Management Project (*under construction*)
 - Los Angeles River Ecosystem Restoration Project (*pending implementation*)
 - Brazos Island Harbor ("BIH") Channel Improvement Project (*pending implementation*)
- The USACE P3 pilot program has projected Federal savings of **more than \$350M** and **13 years**.
- More information can be found at:
 - https://www.usace.army.mil/Missions/Civil-Works/Infrastructure/Infra_P3_program/



Listen to the "Inside the Castle" episode on the Fargo-Moorhead Public-Private Partnership Pilot



Fargo-Moorhead Metropolitan Area Flood Risk Management Project

- First P3 pilot within USACE
- First P3 financing of a Civil Works project in USACE history
- Represents a new era in community-based infrastructure investment



Fargo-Moorhead P3 Construction



CORPS WATER INFRASTRUCTURE FINANCING PROGRAM (CWIFP)



Corps Water Infrastructure Financing Program

- An innovative approach to project financing
- Long-term low-cost loans *(authorized by the Water Infrastructure Finance and Innovation Act (WIFIA))*
- Enables local investment in infrastructure project that promotes economic prosperity and improves environmental quality.
- Currently, safety projects to maintain, upgrade, and repair dams identified in the National Inventory of Dams owned by non-federal entities are eligible.

Benefits of Innovative Financing vs. Traditional Delivery



Takes longer to build due to the ebb and flow of funding.



Funded upfront; allowing for accelerated project delivery.



Listen to the "Inside the Castle" episode showcasing U.S. EPA's WIFIA Program to learn more.



OPERATIONS & MAINTENANCE

MODERNIZING OUR INFRASTRUCTURE THROUGH ASSET MANAGEMENT



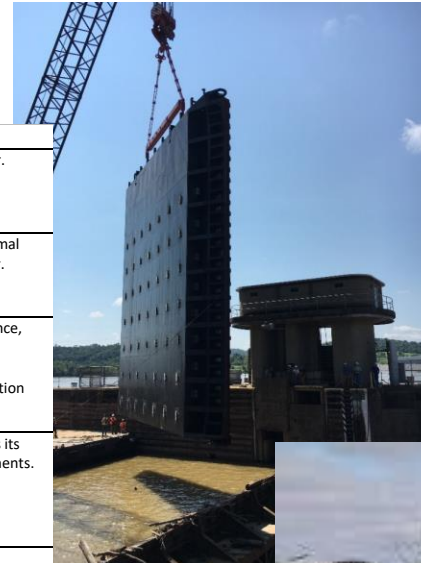
- USACE is the steward of one of the **largest asset portfolios**, by value, of all federal agencies.
- USACE **operates, maintains, and manages** more than **\$270 Billion** worth of the **Nation's water resource infrastructure assets**.
- Knowing the **inventory and its condition helps USACE optimize the value of built assets**.

Rating	Descriptor	Definition
A	Excellent	Component was recently put into service and shows no signs of wear.
A-		
B	Good	Component performs its intended function. Any deficiencies are normal wear and not actively progressing at a greater rate than normal wear.
B-		
C	Fair	Component has a deficiency that is beginning ¹ to affect its performance, operational procedures, and/or maintenance requirements. <i>AND/OR</i> Component is beginning to show a greater rate of change in degradation that has the potential to cause a functional failure.
C-		
D	Poor	Component has a deficiency that increasingly ² or moderately ³ affects its performance, operational procedures, and/or maintenance requirements. <i>AND/OR</i> Component has a clear mode of failure due to an advanced state of degradation likely with an accelerating trend.
D-		
F	Failing	Component has a deficiency that substantially ⁴ affects its performance, operational procedures, and/or maintenance requirements and is approaching complete failure. <i>AND/OR</i> Component is clearly in the final stages of degradation trending toward complete failure (imminent failure).
CF	Completely Failed	Component is completely failed and does not perform its intended function. <i>AND/OR</i> Component is red-tagged.

Minus OCA Rating Definition

The minus OCA ratings (A-, B-, C-, and D-) are for components that meet the definition of a particular OCA rating but may be showing initial signs of the next lower OCA rating.

*See [Table 2] for commentary and key definitions associated with this rating scale. Further iterations supporting tool will include a rating of "U" for unknown.



Timing maintenance and rehabilitation investments for optimal return





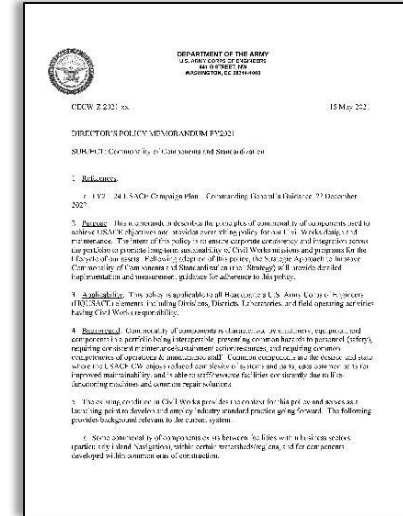
COMMONALITY OF COMPONENTS

A USACE PRIORITY...



Benefits of Commonality:

- **Increased reliability**
- Increased consistency between sites, districts, and regions,
- Improved maintenance competency,
- Lower design & acquisition costs,
- Reduced maintenance & repair costs, &
- **Reduced life-cycle costs**



We need a strategy to capture benefits from the complexity of Civil Works infrastructure.






WATER RESOURCES DEVELOPMENT ACT OF 2020




Implementation Guidance Status


 **36 sections**
Need Implementation Guidance


 **11 sections**
Signed to Date

 Remaining
25 sections
Expected to be Released in the **Coming Weeks**

39 Reports to Congress

 **10 Reports to Congress**
Submitted to ASA(CW) Review

 **Section 205: Selma, AL**
Report to Congress Submitted

 **December 27, 2020**
WRDA 2020 enacted as part of the Consolidated Appropriations Act and included:

- **Harbor Maintenance Trust Fund**
\$2B additional funds for harbor maintenance
- **Inland Waterways Trust Fund**
Reduced contribution from 50% to 35%
- **46 construction projects**
Cost of **\$15B**
- **27 Feasibility Studies**



ADMINISTRATION, ARMY, USACE INITIATIVES



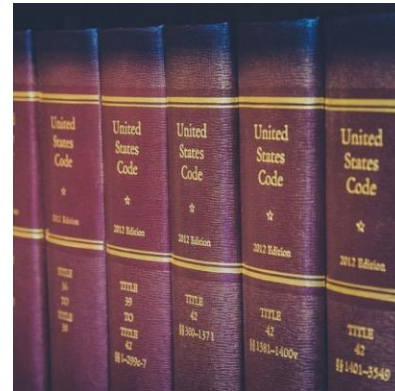
- **Administration Initiatives**

- Climate Change - Update to Climate Action Plan
- Environmental Justice & Equity/Justice40



- **Rulemaking Efforts**

- Waters of the U.S. – EPA/Army Led
- PR&G – CEQ Led - Interagency
- 408 Program – USACE Led
- Nationwide Permits – USACE Led
- National Disaster Procedures – USACE Led
- Ability to Pay for Flood Control – USACE Led
- CWIFP – USACE Led



- **Policy Elevation on the West Coast Region Guidance – Endangered Species Act**

- Environmental Baseline/Evaluation of Effects for ESA Consultation
 - Regulatory Program and CW Water Resource Projects



LET'S SUSTAIN THE CONVERSATION



- **Revolutionize USACE CW website for information:** <https://www.usace.army.mil/Missions/Civil-Works/Infrastructure/revolutionize/>
- **USACE CW P3 public website:** https://www.usace.army.mil/Missions/Civil-Works/Infrastructure/Infra_P3_program/
- **USACE CWIFP website:** <https://www.usace.army.mil/Missions/Civil-Works/Infrastructure/revolutionize/CWIFP/>
- **USACE publications** can be found at the official repository for USACE Engineering Regulations (ERs), Engineering Circulars (ECs), Engineering Manuals (EMs) and other official public documents including glossaries, policies, and memos originating from Headquarters USACE: <https://www.publications.usace.army.mil/>
- **Ask a librarian:** Having trouble finding what you are looking for? Not sure what you need or where to look? Ask a Librarian. We have the experts available to help you: library@usace.army.mil
- **Inside the Castle Podcast:** Go behind castle doors to hear how the Corps is solving some of the nation's toughest engineering challenges: <https://podcasts.apple.com/us/podcast/inside-the-castle/id1539014668>
- **Send contact info, direct input, feedback, or meeting requests to:** CW.Infrastructure.Team@usace.army.mil



TOGETHER WE ARE STRONGER

Partnerships in Action



Questions
?

