



US ARMY CORPS OF ENGINEERS CIVIL WORKS UPDATE

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U.S. Army Corps of Engineers
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Civil Works National Impacts

EMERGENCY MANAGEMENT



9,900 USACE personnel engaged at peak operations FY2020-2024.

USACE supported 166 immediate response priorities alongside the federal team,



providing temporary power and other needs as well as initiating recovery efforts by assessing and restoring critical infrastructure.

WATER SUPPLY

135 multi-purpose RESERVOIRS makes us one of the Nation's largest water supply agencies

providing storage & water supply for local communities & industries in **26 STATES**

HYDROPOWER

largest owner-operator of hydroelectric power plants in the U.S. with approx.

75 PLANTS

producing approx. 24% of the Nation's total hydropower output

generating enough to power **11 MIL+ HOMES** every year



NAVIGATION

USACE ensures commodities can move safely, reliably, and efficiently along

12K MILES of inland waterways

13K MILES intracoastal waterways

Almost everything Americans use moves through USACE waterways and ports, including

98% of overseas trade

70% of imported oil

48% of consumer goods bought by Americans

more efficient mode of transportation

1 BARGE TOW =

16 RAIL CARS =

70 LARGE SEMIS

RECREATION

266MIL VISITS to USACE recreation on average annually

\$16 BIL Economic IMPACT supports **117,000 jobs**

OVER 400 lake and river projects contribute

Nearly 38,000 Volunteers with **\$58.6 MIL** value in FY 26

DREDGING

OVER 186 MIL cubic yards of dredging done annually via **150+ CONTRACTS**

the dredge material is used to provide

- shoreline protection
- beach renourishment
- beneficial USES (such as wetland creation)

FLOOD RISK MANAGEMENT

13.5K MILES of levees
700 DAMS

450+ MILES of shoreline protection reduce flood impacts for **OVER 3 TRIL** in national infrastructure along rivers and coasts

\$15  **\$1**
\$15 in flood damages prevented for every \$1 invested.

Data As of Spring 2025



U.S. Army Corps of Engineers



Military Programs



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MILITARY CONSTRUCTION

- ♦ DoD Construction Agent
- ♦ Host Nation Construction
- ♦ Real Estate
- ♦ Tri-Service Facilities Standards & Criteria

Did you know?

We manage over \$20B in construction worldwide every year!

INSTALLATION READINESS

- ♦ Sustainment, Restoration & Modernization
- ♦ Mission Assurance / Energy & Water Security
- ♦ Master Planning / Combat Facilities Planning & Support

Guess What?

Some of our missions include planning combat-ready bases and protecting water resources!



INTERAGENCY & INTERNATIONAL

- ♦ Federal / State / Local / Tribal
- ♦ "Whole of USACE" Capabilities
- ♦ Support to Geographic Combatant Commands & Foreign Governments



REAL ESTATE

- ♦ Real Estate / Property Acquisition, Management & Disposal
- ♦ DoD Joint Recruiting Facilities Real Property Accountability
- ♦ DoD Joint Recruiting Facilities

ENVIRONMENTAL

- ♦ Hazardous, Toxic, Radioactive Waste & Military Munitions Cleanup
- ♦ Planning, Compliance & Resource Conservation

Did you know?

We also respond to hazardous environmental threats!



MILITARY MISSIONS

- ♦ Geospatial Engineering
- ♦ Full Spectrum Operational Support
- ♦ Field Force Engineering





Chief of Engineer's Priorities & Imperatives for Project Delivery

today - deliver

WE **SAFELY DELIVER QUALITY PROJECTS** – RELIABLE NAVIGATION, RECREATION OPPORTUNITIES, CRITICAL DISASTER ASSISTANCE, FLOOD & COASTAL RISK MANAGEMENT PROJECTS, RESTORATION WORK, REGULATORY AND MORE – **ON TIME & WITHIN BUDGET**

tomorrow - innovate

WE STRIVE DAILY TO IMPROVE & STAY AHEAD OF CHANGE. WE KEEP INNOVATING, **LEVERAGING NEW TECHNOLOGIES** TO ALWAYS DO MORE WITH LESS

always - people

WE **FOCUS ON OUR PEOPLE**, ENSURING THEY HAVE ACCESS TO CUTTING-EDGE TRAINING AND THE TOOLS AND RESOURCES NEEDED TO ACCOMPLISH WORK EFFICIENTLY AND EFFECTIVELY **ALONGSIDE PARTNERS LIKE YOU.**



get the engineering right



get the project management right



get the business right



Changes in Civil Works Planning

- Portfolio Reviews and Design Maturity
- Consolidating Policy and Legal Reviews
- Command Validation Milestone (replaces ADM)
- Adopting Quality Planning Indicators
- “Benchmarking” Section 203 Studies
- Live Dashboard: Portfolio Viewer & Data Management
- New Start Studies: Orientation & Vertical Alignment
- Leveraging Planning Centers of Expertise



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Q: What is Design Maturity?

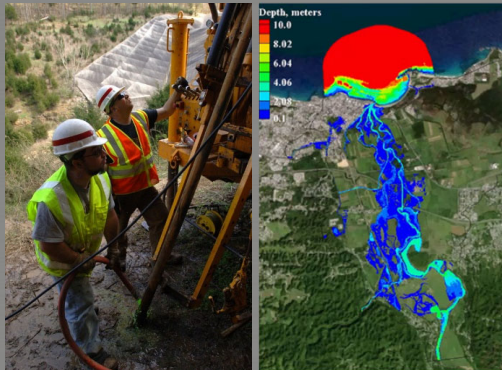
A: See *ECB 2023-9, Rev 1*

10%
Concept Design



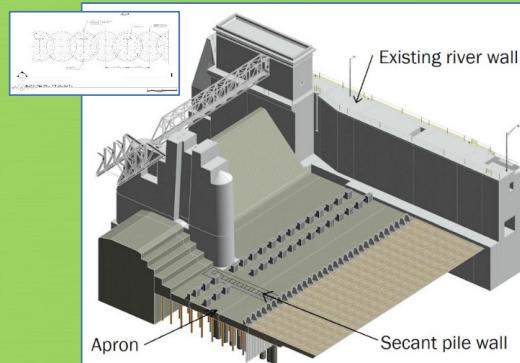
- Defined Scope

30%
Preliminary Design



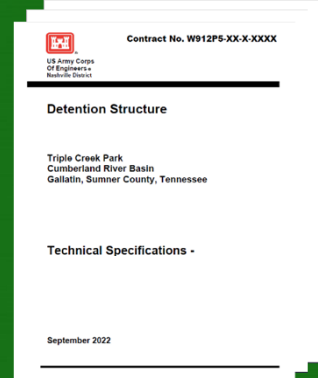
- Preliminary Design Analysis Complete
- Field Investigations Complete

60%
Intermediate Design



- Design Analyses Complete
- Finalizing Engineering Details

90%
Final Design



- Complete Design, Plans, and Specs
- Ready for Final Reviews

Feasibility

PED/Design Process



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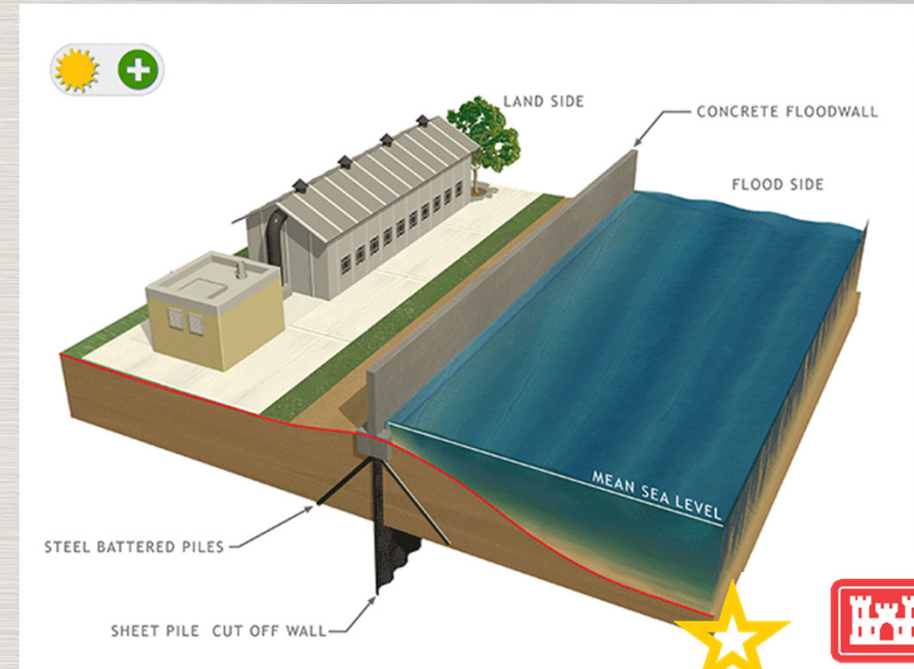
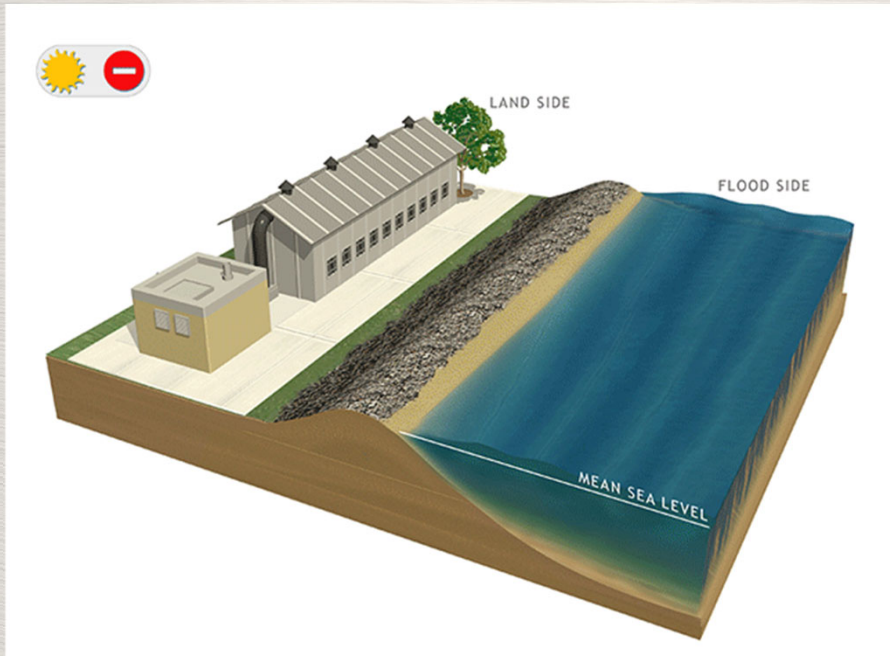


Feasibility Design

Design Maturity = 10 – 30%

To have a meaningful Cost Estimate

1. We need to know WHAT we are building
2. WHERE we are building it
3. What are we building ON and WITH!





Design Maturity Determination

10%

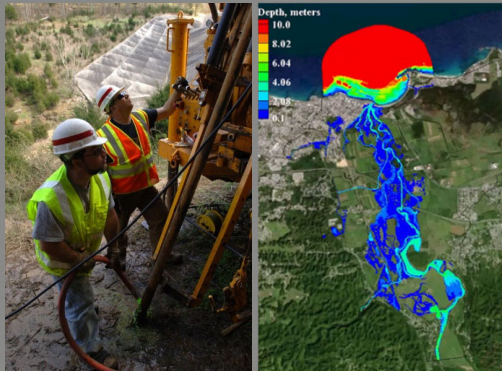
Concept Design



- Defined Scope

30%

Preliminary Design



- Preliminary Design Analysis Complete
- Field Investigations Complete

Feasibility

Pre SMART/3x3 Approach for Feasibility was 30% Design

- Expensive – when project isn't yet approved
- Takes a lot of time – studies were taking too long

Is 30% needed every time?

- For Full Design and Certified Cost Estimates, YES
- To determine the right plan and cost range, NO.

We must do ENOUGH to fully define the scope AND put together a reasonable cost estimate

For ENGINEERING that often means we need to be beyond 10% in a few areas:

- **H&H**: What is our loading and conditions
- **Geotechnical**: What are we building on/with
- **Survey**: Where are things in space?



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Army Signs Landmark Agreements for America's Everglades



- **Memorandum of Agreement between Army & State of Florida regarding the Comprehensive Everglades Restoration Plan:**
 - Empowers Florida to execute the design, construction, management, and delivery of the CERP
 - Highlights that Florida will seek primary responsibility of several projects within the CERP, including the S636 Pump Station and additional pump stations and features for the Everglades Agricultural Area Reservoir
 - Recognizes the importance of the Army's timely review of permitting requests under section 404 of the Clean Water Act
- **Memorandum of Understanding between Army, Florida Department of Environmental Protection & South Florida Water Management District regarding CERP:** Acknowledges that the State of Florida has demonstrated that state-based implementation expedites project delivery and accelerates restoration and reinforces the need for joint support and commitment between all entities for the success of the project

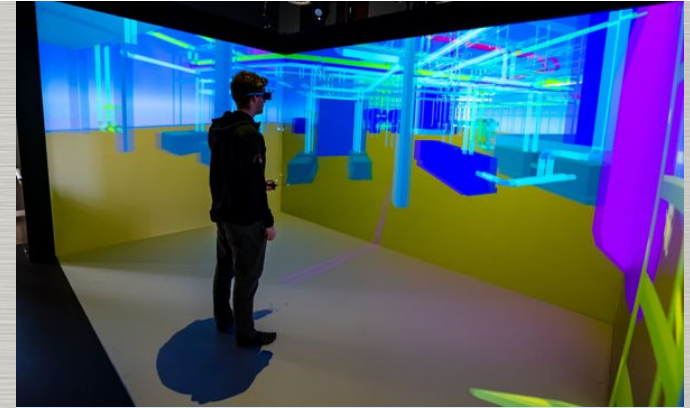


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Focused on Innovation

- Digital Engineering & Building Information Modeling
- Artificial Intelligence & Machine Learning
- Advanced Materials & Construction Techniques
- Remote Sensing & Data Analytics



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Asset Management

Protecting Investments & Planning for the Future



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We are focused on:

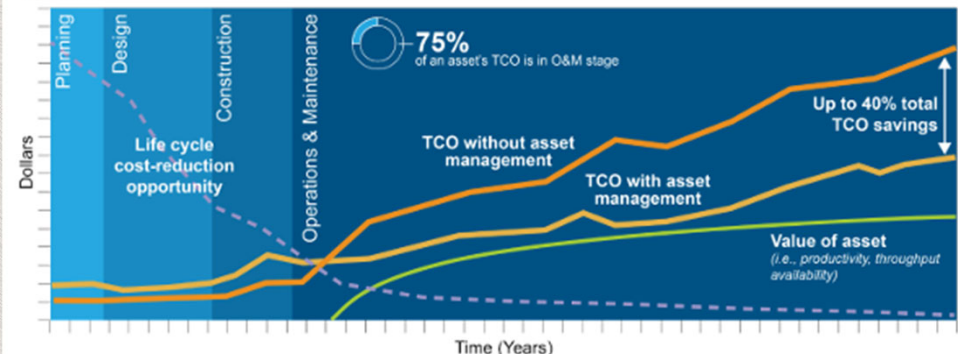
- Improving reliability, minimizing risk, & meeting projected infrastructure demands
- Monitoring & maintaining asset condition to prevent, or to diminish to an acceptable degree, the consequences of operational (component or system) failure
- Collecting & maintaining asset info so that condition/cost/resource requirements are communicated to stakeholders
- Strategizing operations, maintenance, capital investment, and disposal decision-making
- “Right-sizing” the asset inventory and balance benefits, consequences of failure, and risk against lifecycle costs
- Standardizing best practices, promoting accountability, and predicting work requirements
- Using a lifecycle approach (planning, design, procurement, construction, operation, maintenance, etc.) to maximize project portfolio benefits and minimize costs

Asset Management Policy Goals

Cross-Functional Integration	Asset Information Standards	Maintenance	Investment Criteria	Investment Recommendations	Investment Planning
State-of-the-art life cycle value will be the priority at all stages of Civil Works projects (planning, design, procurement, construction, and operations and maintenance) to maximize portfolio benefits and minimize cost.	Asset information will be maintained corporately. Asset location, quantity, condition, cost, and resource requirements will be consistently communicated to stakeholders at the national, regional, and local levels.	Civil Works will systematically monitor and maintain asset condition to prevent—or to diminish to an acceptable degree—the consequences of failure.	Budget decisions will be based on transparent, objective measures according to established corporate values and easily communicated so that trade-offs are clear to all.	Resource priorities will be guided by the derived asset value and unconstrained by business line, geographical boundary, or appropriation.	Civil Works will track execution of the budget in the context of the life cycle plans to ensure the planned benefits are realized to the maximum extent possible.

Ability to Influence Cost vs Life Cycle Phase

Value of Asset Management: Up to 40% Savings on Total Cost of Ownership (TCO)





Listen In...

Go Behind Castle Doors to Learn about All Aspects of the U.S. Army Corps Of Engineers

Episodes of Interest:

- Interview with the Chief of Engineers
- Interview with Assistant Secretary of the Army for Civil Works
- Environmental Infrastructure
- USACE Budget Process
- USACE Supplemental Program Overview
- Inland Navigation Design Center
- Aging Infrastructure
- Overview of USACE Operations Division

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Any Questions?

