THE WASHINGTON DC POST





of Metropolitan Washington



SAME WASHINGTON DC Post in association with ACEC MW & CMAA NCC presents

JOINT CONFERENCE Major Construction Program Trends, Strategies & Opportunities (3 PDH)

June 23, 2022

www.same.org/DCPost

9:00 am - 2:00 pm

Thursday

Army & Navy Club on Farragut Square

Sponsorships Available!





Philios Angelides, PE, F.SAME, F.ACEC

Past President, SAME DC Post The Angelides Group, LLC



June 23, 2022 JOINT CONFERENCE

Please join us in the **PLEDGE OF ALLEGIANCE**

I pledge allegiance to the Flag of the United States of America and to the Republic for which it stands, one nation, under God, indivisible, with liberty and justice for all.

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Keith Foxx, PE Incoming President, ACEC MW FOXXSTEM

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Barbara Reynolds, *CCM PMP NCIDQ* President, CMAA NCC Parsons



June 23, 2022 JOINT CONFERENCE

JOINT CONFERENCE PROGRAM OBJECTIVES

The program includes presentations and discussions about Major Construction Program Trends, Strategies and Opportunities, presented by representatives from the Department of Navy, Fairfax County, and U.S. Army Corps of Engineers, as well as updates from leaders in SAME, ACEC and CMAA.

All attendees are eligible for three (3) Professional Development Hours (PDH). Certificates will be emailed to attendees with a copy of the slides from "<u>samedcprograms@gmail.com</u>".

Learning Objectives:

- ✓ Learn more about government trends, strategies and opportunities in major construction programs.
- ✓ Learn about upcoming funding sources, opportunities and outlook to support future projects.
- ✓ Join in the discussion of unique challenges with the ability to provide feedback and solutions through this industry-government engagement program.





James B. Balocki Deputy Assistant Secretary of the Navy (Installations, Energy and Facilities)

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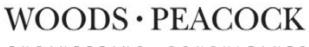
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ENGINEERING CONSULTANTS



Fairfax County – Major Construction Program Trends, Challenges, Projects & Opportunities Presented for the Society for Military Engineers (SAME)

Maurice Avren, PE, Chief, Building Construction Branch, Building Design and Construction Division, DPWES Matthew J. Doyle, PE, CCM, Chief, Wastewater Collection Branch, Wastewater Design & Construction Division, DPWES

> Department of Public Works and Environmental Services Working for You!





A Fairfax County, VA, publication

June 23, 2022

Presentation Overview:

- Overview of Capital Improvement Program (CIP)
- Purchasing Agencies within Fairfax County
- Overview of DPWES, Capital Facilities and Current Projects
- Types of Contract Mechanisms
- Current and Future Projects Overview
- Trends, Challenges, and Opportunities



Fairfax County - Construction Program Trends, Challenges, Projects & Opportunities FY2023 - FY2027 Capital Improvement Program (CIP)

- Multi-year roadmap for funding present and future projects.
- The CIP is based on 5-year plan; including insight beyond the 5-year period to FY to 2032. Past and present versions of this publication are available on the Fairfax County public website shown here: <u>https://www.fairfaxcounty.gov/</u>. Please be sure to search for the adopted (not advertised) version for the most accurate information.
- New projects are rolled into the program with each yearly update.
- The current CIP Lists Projects and Programs. Some Programs contain dozens of individual projects including those for: Parks, Schools, Facilities Management, Housing, Transportation, and Public Works.
- Funding for CIP programs and projects is sourced from Bonds, General Funds, Grants, Developer Contributions (Proffers), PPEA (Public-Private Education Facilities infrastructure Act) & Federal/State funds.



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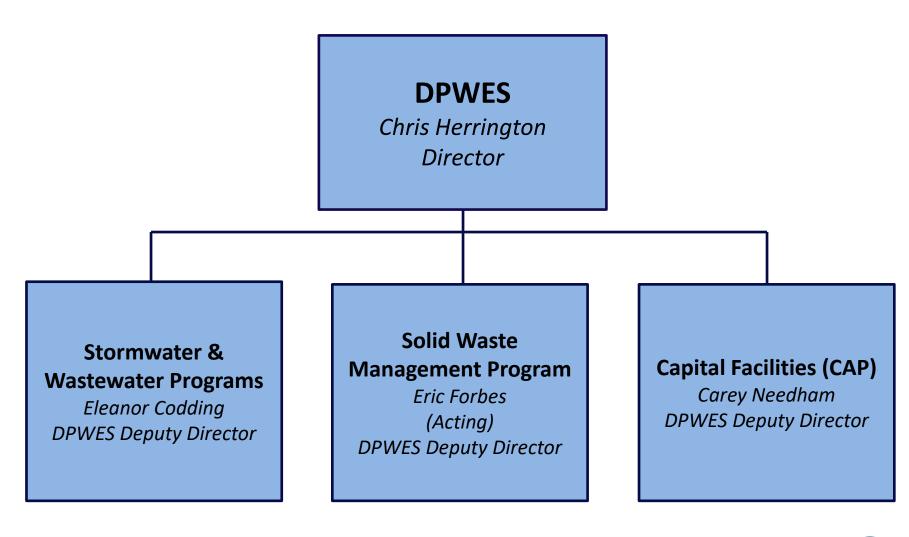
Fairfax County - Construction Program Trends, Challenges, Projects & Opportunities Agencies with Purchasing Authority

- DPWES Department of Public Works & Environmental Services
- **FCDOT** Fairfax County Department of Transportation
- FCPA Fairfax County Park Authority
- **FCPS** Fairfax County Public Schools
- **FCHCD** Fairfax County Housing & Community Development
- **DPMM** Dept. of Procurement and Material Management

Purchasing Authority, including designation of Contracting Officer authority originates in DPMM.

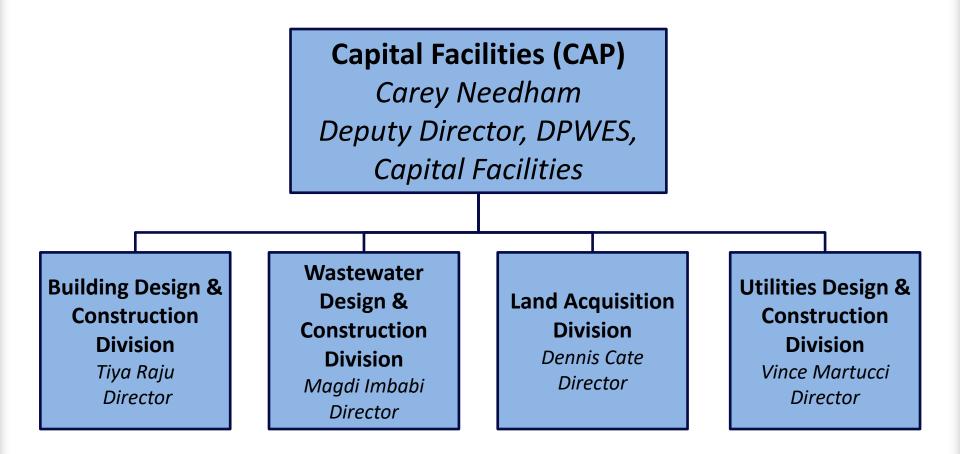


Fairfax County – Construction Program Trends, Challenges, Projects & Opportunities Department of Public Works & Environmental Services (DPWES)





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Fairfax County – Construction Program Trends, Challenges, Projects & Opportunities Trends 1 of 2 – Current Pathways to Construction

- **Design-Bid-Build (DBB):** This procurement remains the central approach for DPWES projects with significant value.
- **Construction Manager at Risk (CMAR):** CMAR projects are currently in progress for multiple divisions within Capital Facilities.
- **Design-Build (DB):** Typically selected as one-off or special circumstances.
- **Public-Private Partnerships (P3):** Evaluated when submitted or when included in master planning or other long-term strategies.
- Task Orders/Basic Ordering Agreements (BOA's)/Job Order Contracts (JOC), etc.: Limited scope methods addressing smaller projects with specific focus. New limits and restrictions on renewals may be set as political focus and markets change.



Fairfax County - Construction Program Trends, Challenges, Projects & Opportunities Trends 2 of 2 - Addressing the World Around Us

- Regulation: Inspection criteria are changing to address environmental contamination concerns, newly identified ADA needs, international law, general jobsite safety, legal or required sourcing and disposal of materials, as well as use administrating labor.
- **Prevailing Wage (PW):** The Fairfax County Prevailing Wage Ordinance goes into effect for projects solicited (bid) on or after July 1, 2022.
- **Photo Voltaic (PV) Power:** Projects providing solar ready, solar installed, and solar retrofitted structures are on the rise.
- **Project Labor Agreements (PLA):** PLA is to be piloted in the near-term for Capital Facilities projects.
- LEED / Net Zero: Mandatory and verifiable thresholds for environmental stewardship are currently included in many CAP projects.



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Fairfax County – Construction Program Trends, Challenges, Projects & Opportunities Challenges – The Forces of Change 1 of 2

- Supply Chain Interruptions & Delays: Cost escalation and sequencing work are serious challenges in today's market. Interruptions and delays related to raw materials and assemblies have affected several projects. Fairfax County has attempted to mitigate this effect by providing maximum flexibility while still delivering high-quality facilities and systems.
- Labor Costs: Recent regional labor shortages have been driving costs upward concurrent with supply issues. Additionally, the level of skill applied on projects appears to be dropping as experienced workers leave the workforce without adequate time to mentor their replacements.
- **Cost Estimation:** Government depends heavily on predicting costs. Unique market pressures and the rising tendency for contractors to add costs into their bids to cover unforeseen issues leads into conditions that make estimation tasks difficult.



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Fairfax County - Construction Program Trends, Challenges, Projects & Opportunities Challenges - The Forces of Change 2 of 2

- Rapid Change: Regulatory and Design Parameters are Changing Frequently. Although it is good to respond swiftly to changing needs, it is difficult for projects to complete the design phase before needs, rules and regulation changes occur.
- Contractor Business Models: Contractors have been running on thin margins for some time and recent pressure to provide early buy-out and procurement for scarce and long lead items puts stress on the longaccepted just-in-time process.
- Recruitment and Staff Retention: Government, vendors, designers, and contractors have not been immune from "The Great Resignation". This subject covers sudden decisions to retire, demands from entry level staff for high salaries, teleworking demands, and a general decrease in skill across the board.



Projects in Construction



Lorton Community Center & Library



Monument Drive Commuter Parking Garage



S. County Police Station & Animal Shelter



Stormwater/Wastewater Consolidation Facility



Completed Projects



Public Safety Headquarters



Bailey's Shelter & Supportive Housing



Innovation Center Parking Garage



Projects in Design or Bidding Phase



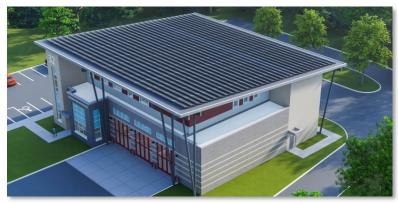
Adult Detention Center Security Upgrades



Kingstowne Center



West Annandale Fire Station



Fairview Fire Station



Projects in Construction



Workhouse Building W13 & W15



Springfield Commuter Parking Garage



Seven Corners Fire Station



Police Heliport



Little Huntington Creek Pump Station

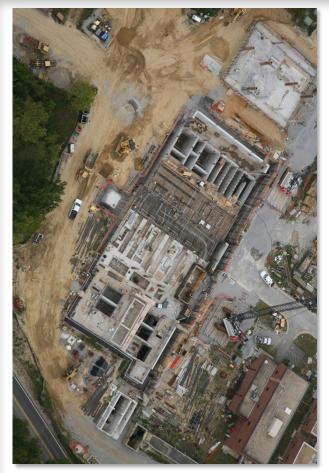




Noman M. Cole Pollution Control Plant Equalization Pond Rehabilitation

Fort Hunt Gravity Sewer



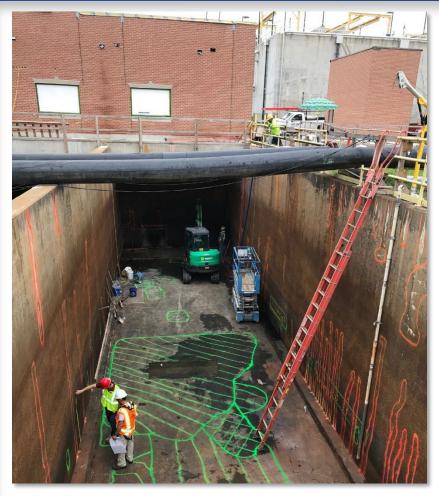


Noman M. Cole Jr. Pollution Control Plant UV Disinfection









Noman M. Cole Jr. Pollution Control Plant Tertiary Filters









Noman M. Cole Jr. Pollution Control Plant Solids 3 Sludge Storage Tank



Fairfax County – Construction Program Trends, Challenges, Projects & Opportunities Opportunities – The Way Forward

- **Collaboration:** Fostering non-adversarial relationships between Owner's, designers, contractors, regulators, <u>and the public</u> is the best way forward.
- **Proactive Communication:** Preconstruction and informal Meet-and-Greet / mini-partnering sessions between AE's, Owners, and Contractors that have never worked together appear to be effective methods to set expectations.
- **Transparency**: Sharing information that affects the work without holding back. In other words, foster an all-in approach to trust between major stakeholders. (reveal internal problems early, admit errors, etc.).
- Technology: Leveraging technology for tracking and sharing data. This item includes the use of project construction management platforms and collaborative software packages for file transfer, document templates, review & signature routing, and general (documented) communication.
- **Flexibility:** Increased flexibility when facing challenges yields a stronger team and often an improved project regarding quality, schedule, and costs.



Fairfax County - Construction Program Trends, Challenges, Projects & Opportunities Fairfax County - Capital Improvement Program



Easy Questions?



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NATIONAL UPDATES



American Council of Engineering Companies

Linda Bauer Darr

President & CEO American Council of Engineering Companies (ACEC)



June 23, 2022 JOINT CONFERENCE





Andrea Rutledge

President & CEO

Construction Management Association of America (CMAA)





NATIONAL UPDATES



Rad Delaney, AIA, LEED AP, F.SAME Regional Vice President Society of American Military Engineers (SAME)





SAME WASHINGTON DC POST MAJOR CONSTRUCTION PROGRAM JOINT CONFERENCE

Mr. Kenny Simmons Chief of Construction U.S. Army Corps of Engineers 23 June 2022

"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."













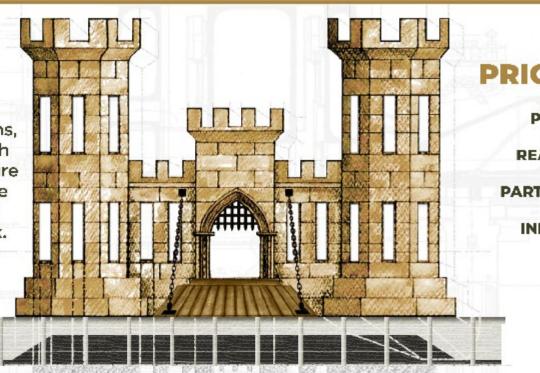
#55 COMMAND PHILOSOPHY



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.





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ENGINEERING SOLUTIONS FOR THE NATION'S TOUGHEST CHALLENGES

COMMAND PHILOSOPHY

- Promote and maintain a positive command climate
- Advance diversity and inclusion in our formations
- Deliver the Program
- Grow our next generation of leaders



FY22 USACE MISSION, VISION, PRIORITIES, COMMAND PHILOSOPHY, & CAMPAIGN PLAN



MISSION

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

VISION

Engineering solutions for the Nation's toughest challenges.

Strong

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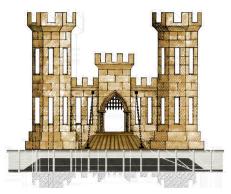
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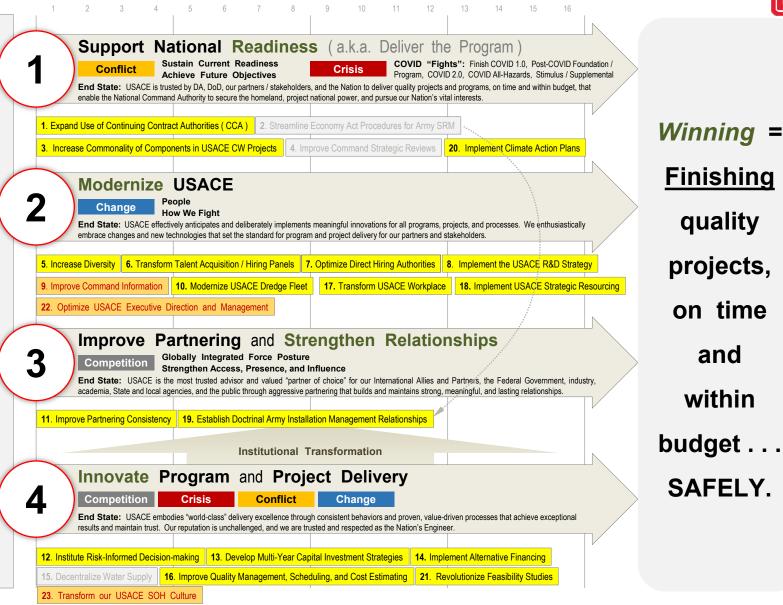
U.S. ARMY CORPS OF ENGINEERS



PRIORITIES PEOPLE READINESS PARTNERSHIPS INNOVATE

COMMAND PHILOSOPHY

- Promote and maintain a positive command climate
- Advance diversity and inclusion in our formations
- Deliver the Program
- · Grow our next generation of leaders





IIS

USACE CURRENT MISSION SET



Delivering a massive **\$84B** portfolio of programs, projects & support



Total Engineer Force

\$4.9B / 3 million service men and women / 287 Installations

\$5.7B Emergency Assistance (HR 5305) \$17.1B = Infrastructure Act - IIJA (HR 3684)

Supporting DA, DoD, IIS



COCOM Support \$5B to COCOMS & Interagency In 110 countries



Missile Defense Agency \$875M to 5 critical projects Romania, Poland, Alaska



USAF / USN / DHA / DLA \$10.7B installation infrastructure for **DoD and Sister Services**



DOD/AF/Army/EPA/DOE **\$2B** in national environmental cleanup



Natural Disaster Response \$4.5B response to disasters in CA, TX, FL, PR, USVI, NC, LA



Veterans Affairs Program \$8.7B Design & construct 22 Projects



Foreign Military Sales \$3.7B Design, construction, engineering services & training in 35 countries

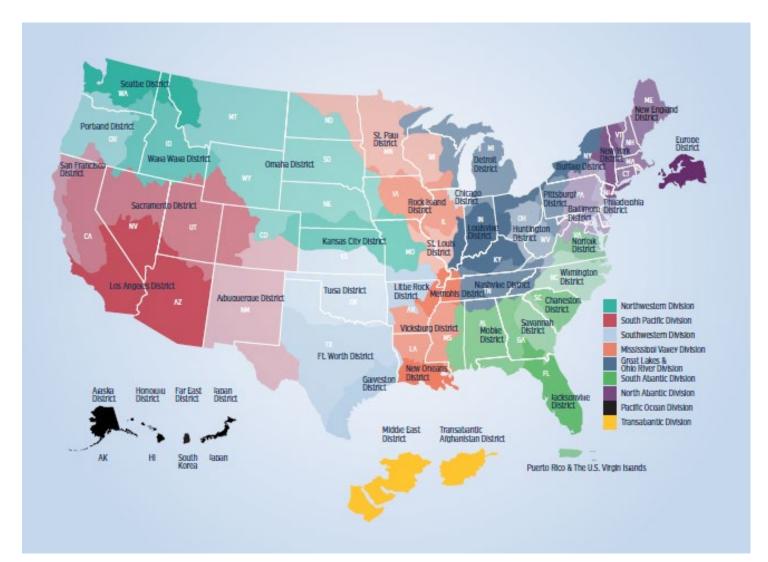


COVID-19 Response \$1.9B COVID Response (38 ACFs) Support to Vaccine Production **Mass Vaccination Centers**



USACE MSC & DISTRICT LOCATIONS





Headquarters (DC)

9 Divisions

43 Districts

9 Centers and Labs

1 Active Duty Unit 249th Prime Power Battalion

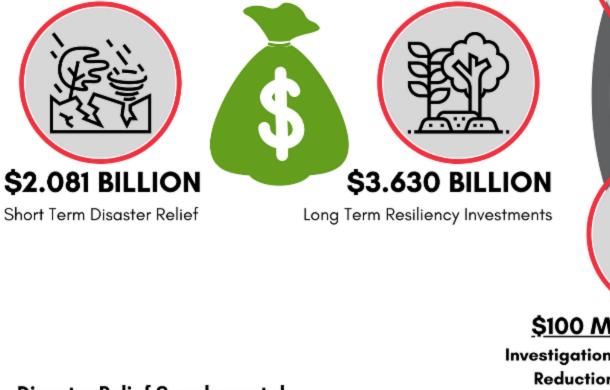
2 U.S. Army Reserve Theater Engineer Commands *412th and 416th*

Contracting: <u>https://www.usace.army.mil/Business-</u> <u>With-Us/</u>

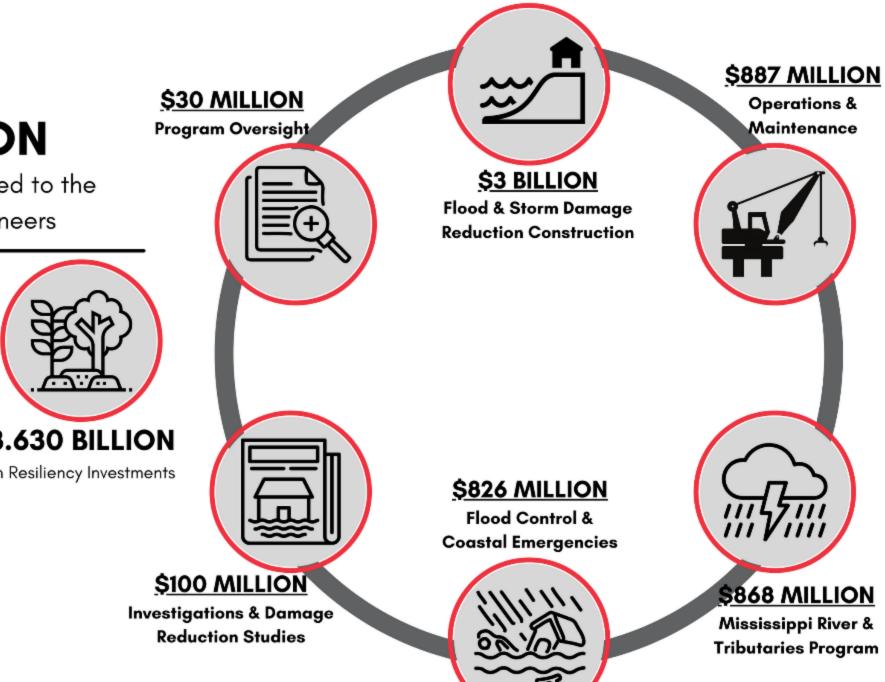


\$5.711 BILLION

Disaster Relief Funds Provided to the U.S. Army Corps of Engineers



Disaster Relief Supplemental Appropriations Act, 2022



U.S. Army Corps of Engineers Role in the Infrastructure Investment and Jobs Act

\$17.1 BILLION INVESTMENT

For Civil Works projects that address water resources and infrastructure needs for the Nation.





<u>\$11.615 BILLION</u> Construction, Rehabilitation & Restoration





Mississippi River & Tributaries Program





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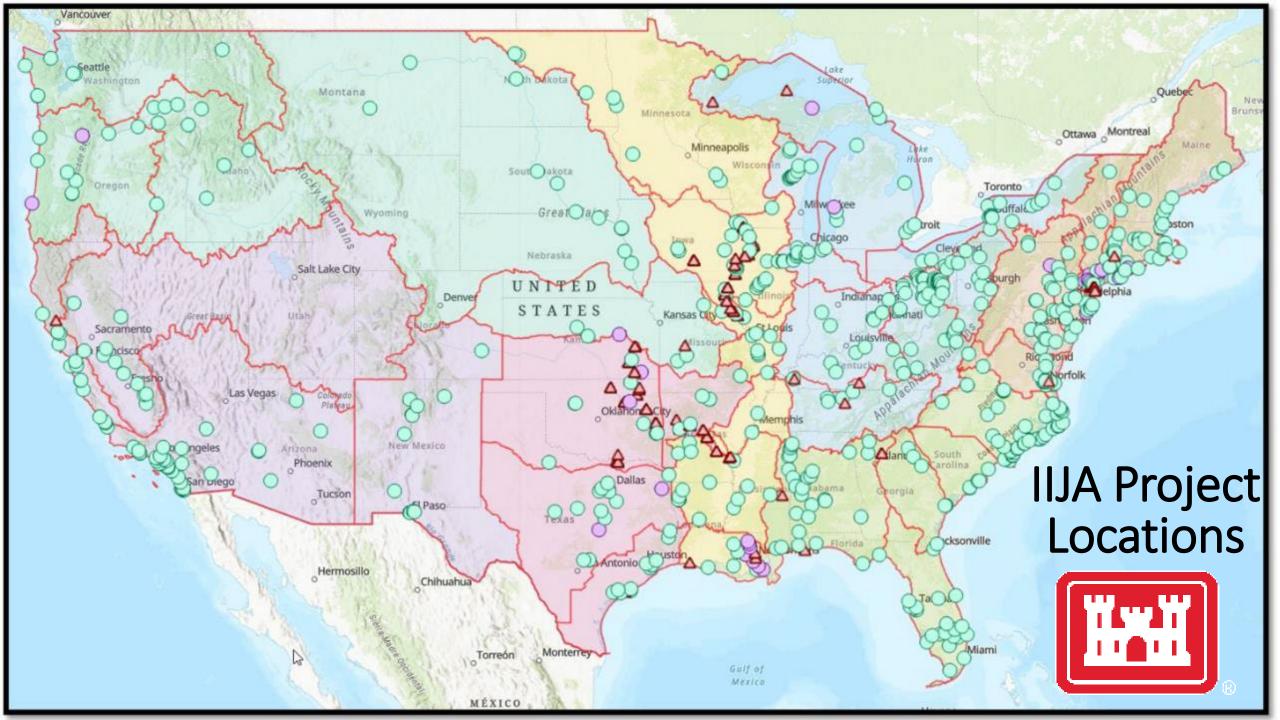
\$75 MILLION

Water Infrastructure

Finance Innovation Act

\$160 MILLION

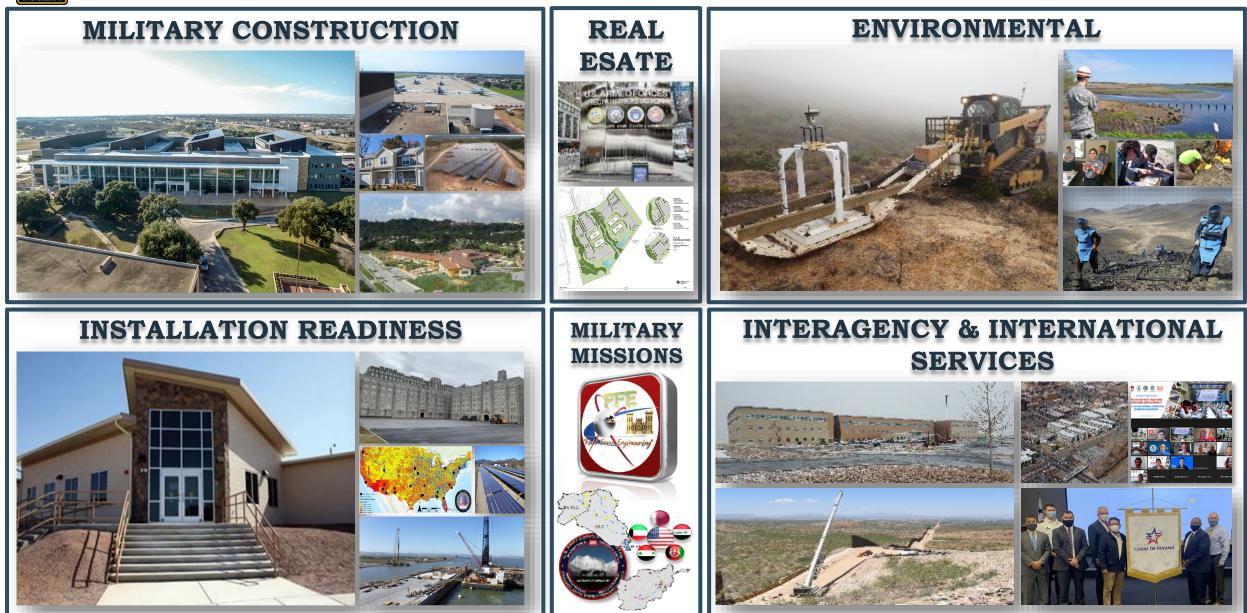
Regulatory Program





MILITARY PROGRAMS PORTFOLIO



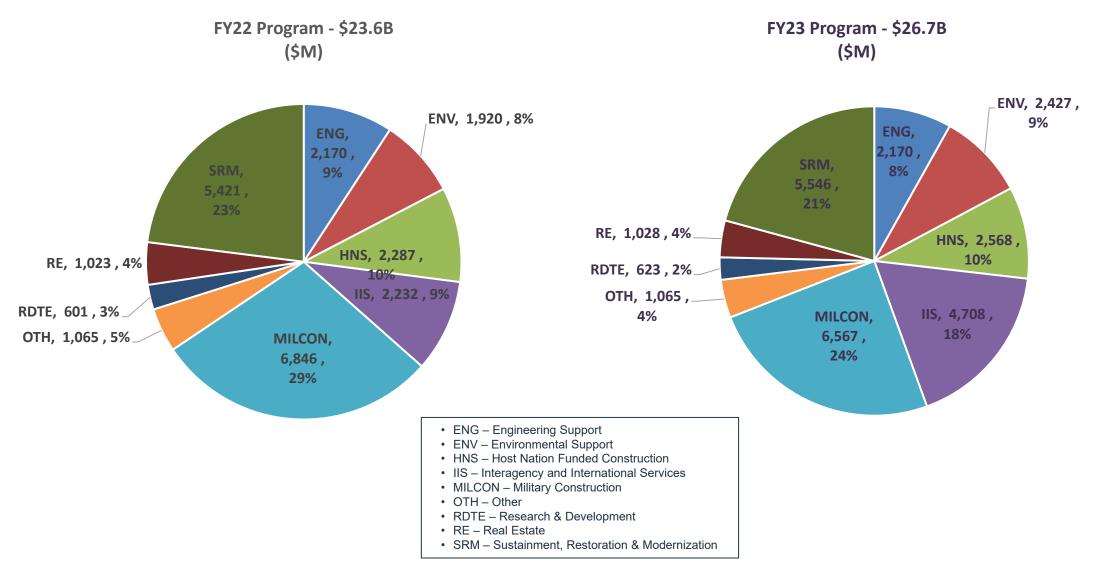




PROJECTED MILITARY PROGRAMS PORTFOLIO WORKLOAD



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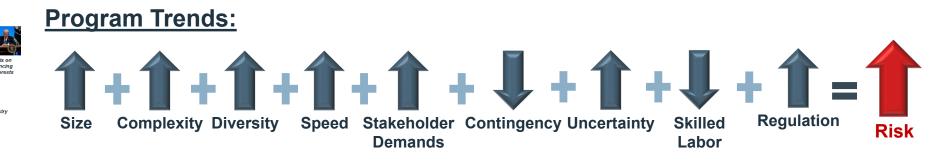
FY21 - \$22.5B Executed Across Military Programs Portfolio



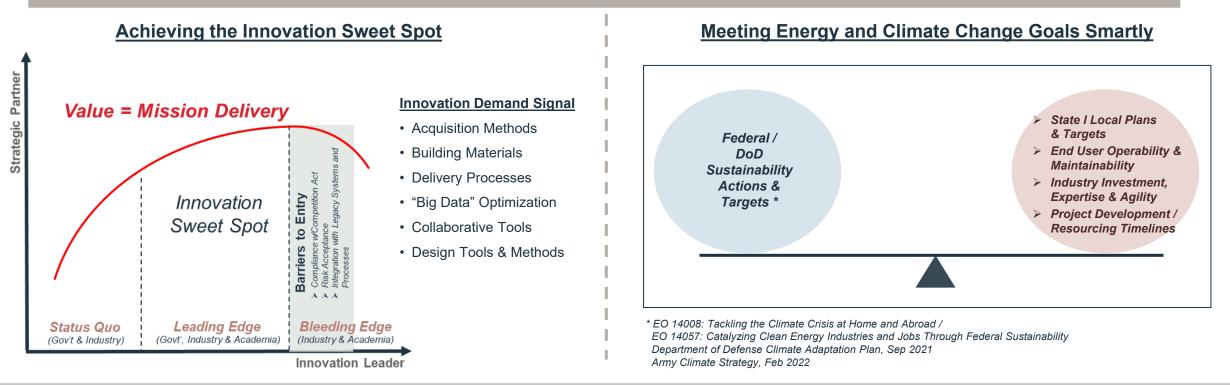
echnology & Inr

OUR OPERATING ENVIRONMENT





Key Delivery Challenges





ENGINEERING & CONSTRUCTION STRATEGY MAP



12

Meeting the Nation's Engineering Needs and Preparing for the Uncertainty of the Future

Vision: Engineering solutions for our Nation's toughest challenges *Mission: E&C provides vital engineering services and water resource stewardship, in peace and war, to strengthen our Nation's security, energize the economy, and reduce disaster*

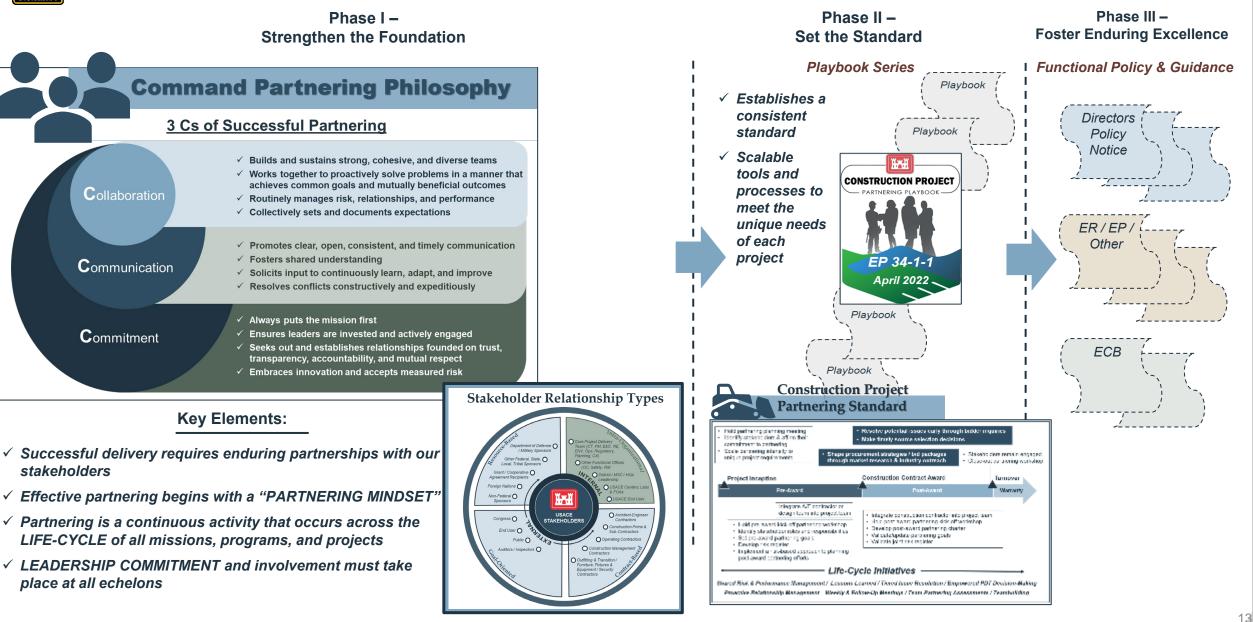
Enterprise Operating Challenges • Adequate Training • Aversion to Risk • Climate	(1) Deliver Quality ConsistentlyPurpose:Safe program/project execution with focus on quality, cost, and schedule.• KM/Lessons Learned• Emphasize "Back to Basics"• Optimize Standardization (design, process)• Reinforce Systems of Redundancy• Embrace Risk Informed Decision Making• Establish/Track Quality Metrics• Establish/Track Quality Metrics	Desired Outcomes Increased Accountability Delivery of quality projects that effectively meet requirements	Desired
Change/Resiliency	(2) Develop and Enable Workforce	Versatile, agile, technically-End State Affirmation as	
Competency Gaps	Purpose:Acquire, develop and enable our• Establish exchange programworkforce through effective tools and resources.• Industry cross-pollination (embedded)	exceptional workforce	<i>world-class</i> Engineering
Competing Priorities	 Basic Assessment of Technical Skills Staff aggressively (WF/WL, regional Utilize CEI-CF (formerly CP-18) 	Mission-ready organization with	and Construction
Culture of Quality	 interdependency, strategic hiring) Provide state of the art tools/IT Train for the future 	enterprise capacity to	organization that delivers
Cybersecurity	(Certify Professionals)	take on challenges	world-class
 Imbalanced Workforce 	(3) Increase Collaboration and Leverage Ingenuity <u>Purpose:</u> Getting the right information to the right • Technical Innovation Forum page at the right time	Culture of dedicated public service	projects
Operational Tempo	 people at the right time Engineering Without Borders (Regional Business Formalize feedback loops 	Manage risk to	
 (Post) Pandemic- Telework Posture 	 Centers) Leverage enterprise, CoPs, and CXs Embrace acquisition alternatives 	stakeholders and federal government	
	Encourage creativity and innovation	Preferred partner of industry and stakeholders	
	Aligned with CC/a Command Dhilosophy	stakenoluers	

Aligned with CG's Command Philosophy



REINFORCING EFFECTIVE PARTNERING PRACTICES



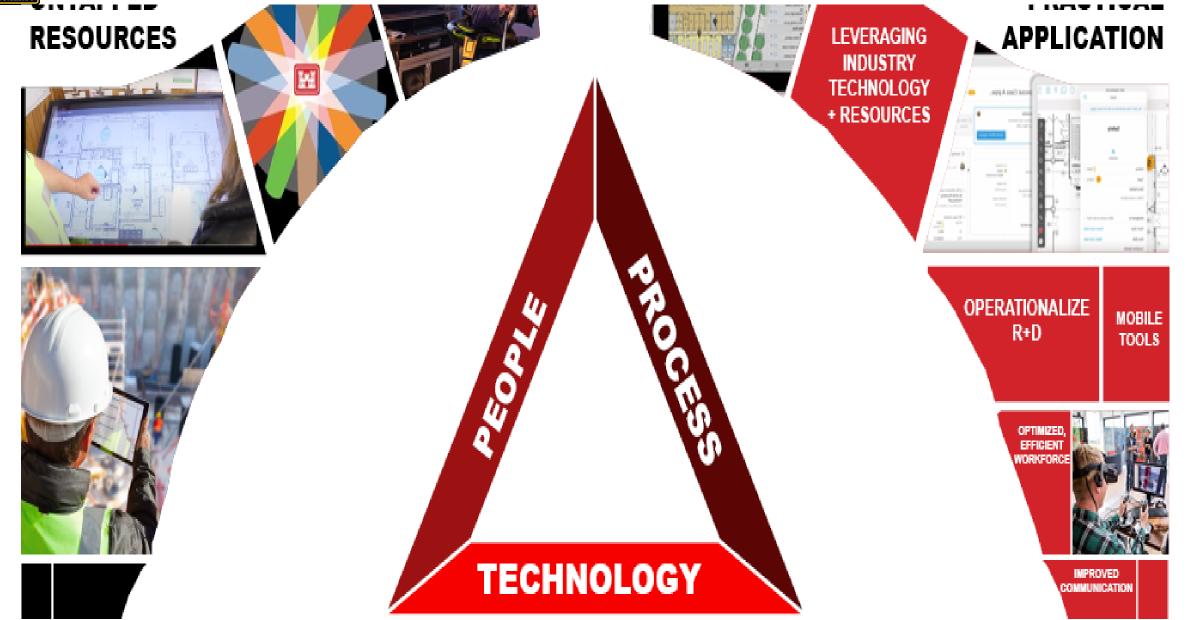




CONSTRUCTION MANAGEMENT INNOVATION



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INTERESTED IN DOING BUSINESS WITH US?



15

- **1.** Register in the System for Award Management database. It is MANDATORY that all vendors be registered under the SAM program.
- 2. Find information on available opportunities through the Federal Business Opportunities website: <u>https://www.fbo.gov/</u>
- 3. Complete the appropriate forms stated or provided in the synopsis or solicitation.
- 4. Visit the website for the division, district, center or laboratory you desire to do business within order to learn about the missions and the types of services/supplies each procures.
- 5. If you are a small or small disadvantaged business, call, write or visit the USACE Deputy for Small Business in the location of interest to you to discuss your firm's capabilities, interest and capacities to perform.





SMALL BUSINESS POINTS OF CONTACT



Army Geospatial Center (AGC)	Northwestern Division (NWD)	
Deborah Ahn: 703-428-7385	Christopher Harper: 503-808-4000	
Great Lakes and Ohio River Division (LRD)	Pacific Ocean Division (POD)	
Bonita Carroll: 513-684-6248	Joan Kaimikaua: 808-835-4761	
Huntsville Center (HNC)	South Atlantic Division (SAD)	
Rebecca Goodsell: 256-895-1385	Antwinette Goodman-Cooper: 404-562-5059	
Engineer Research & Development Center (ERDC)	South Pacific Division (SPD)	
Demetric Erwin: 601-631-5951	Jack May: 415-503-6947	
Mississippi Valley Division (MVD)	Southwestern Division (SWD)	
Marlan Snodgrass: 601-634-7235	Melea Crouse: 469-487-7105	
North Atlantic Division (NAD)	Transatlantic Division (TAD)	
Rippert Roberts III: 347-370-4588	Rachal Raposa: 540-665-1391	

Additional information available at: <u>www.usace.army.mil/Business-With-Us/Small-Business</u>



U.S. Army Corps of Engineers DELIVERING THE MISSION FOR AMERICA

Finishing quality projects on time and within budget, safely Since 1775

IN PARTNERSHIP WITH YOU...

- What can USACE do to help you deliver the mission?
- Are our regional and local offices meeting your needs?
- What barriers to success are you encountering? How can we work together to remove these barriers?



CONTACT INFO



Kenny Simmons | AIA, LEED AP BD+C Chief of Construction U.S. Army Corps of Engineers, Headquarters 3G73 202-761-7234 (O) | 202-669-0728 (C) kenneth.c.simmons@usace.army.mil

Branch mailbox: <u>Construction@usace.army.mil</u> (Construction, Cost Engineering, AE Contracting, etc.)

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UPCOMING EVENTS



SAME Washington DC Post Proudly Presents:

FIRST FRIDAY LUNCHTIME LEARNING SESSIONS

Friday, July 1, 2022 12:00 pm - 1:00 pm ET MS Teams Virtual Platform Earn 1 PDH each session

www.same.org/DCPost

TOPIC: Using Digital Twin Technology to Go Beyond Replacing Like for Like

PRESENTED BY:

FREE FOR

MEMBERS

HUIT-ZOLIARS John J. Kluber, PE, MBA

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SAME Washington DC Post Proudly Presents:

FIRST FRIDAY LUNCHTIME LEARNING SESSIONS

First Friday every month 12:00 pm - 1:00 pm ET MS Teams Virtual Platform Earn 1 PDH each session

CALL FOR PRESENTATIONS



UPCOMING EVENTS





MORE UPCOMING EVENTS





FIRST FRIDAY SESSION: How to Ensure Compliance with the **Buy American Act**, the Trade Agreements Act, and the "Buy America" Requirements of the New Infrastructure Investment and Jobs Act, presented by **Doug Hibshman**, *Fox Rothschild LLP* **Friday, August 5** | 12:00 pm – 1:00 pm | Virtual



SAME DC/NoVA/Mid-Maryland Posts at the JBA Air Show Sept. 16-19 | Joint Base Andrews Expo



Federal Luncheon Program: Innovation in 5G Networks & Electric Infrastructure Thursday, September 22 | 11:30 pm – 2:00 pm | Army and Navy Club at Farragut Square



Annual Scholarship Golf Tournament – It's back! Wednesday, October 5 | Joint Base Andrews – The Courses at Andrews



UPCOMING NATIONAL CONFERENCE



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