



U.S. ARMY

ERDC OVERVIEW



US Army Corps
of Engineers.



ERDC
ENGINEER RESEARCH & DEVELOPMENT CENTER



**US Army Corps
of Engineers.**

USACE INFRASTRUCTURE

- 25,000 miles of navigation channel
 - Supporting 926 ports
- 707 dams
 - 75 hydroelectric power facilities
 - 55,390 miles of shoreline
- 14,500 miles of flood levee
- 236 lock chambers at 192 lock sites
- 929 navigation structures
- 844 bridges
- 12 million acres of public land and water



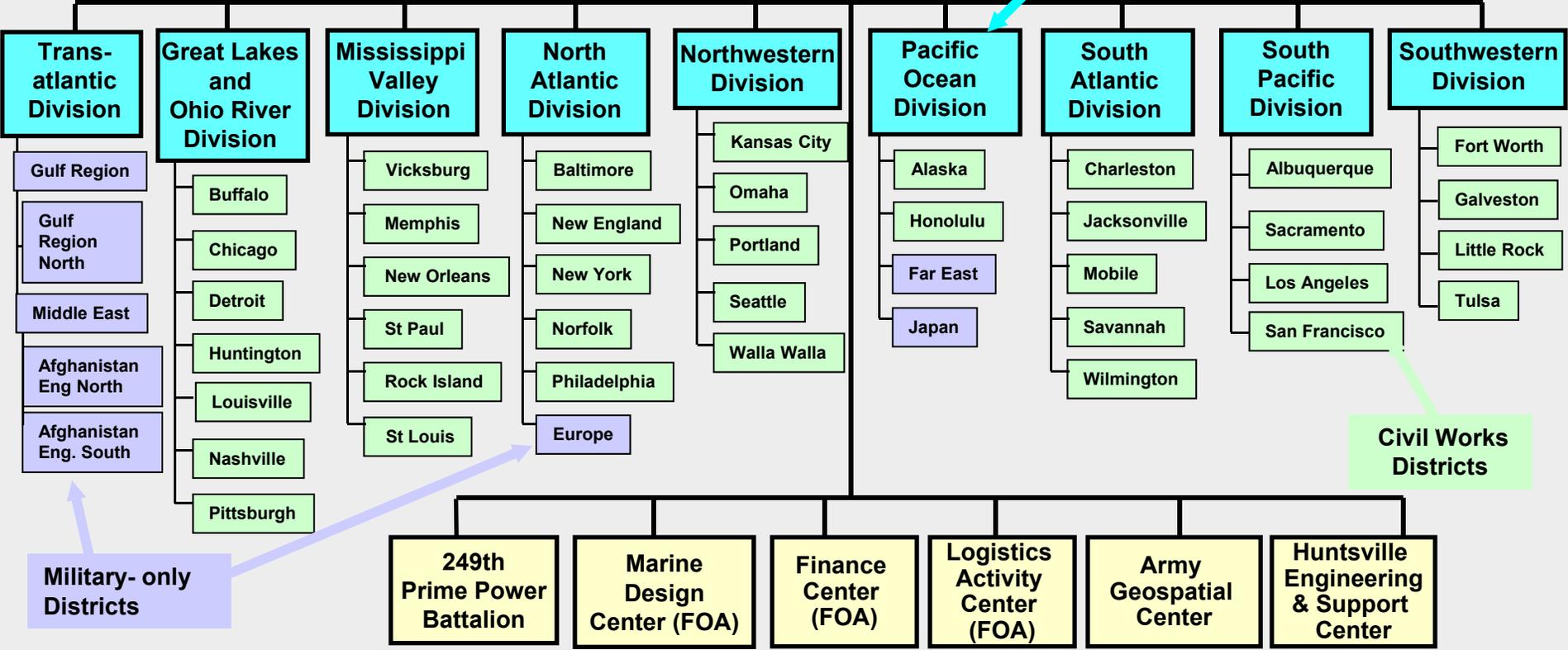
USACE HEADQUARTERS

ERDC

Humphreys Engineer Center Support Activity (FOA)

Institute for Water Resources (FOA)

Major Subordinate Commands



MISSISSIPPI RIVER FLOOD OF 1927

Courtesy of Bea Neill



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ERDC by the Numbers

People

2,100 Strong
 1,157 E&S
 31% E&S PhDs
 45% E&S MS
 Degrees



Program

\$1B/year, 65% Reimbursable

Air Force Marines DoS
 DTRA Army NSF
 NGA OSD
 Navy Other USACE DoI

Processes

BESST

- Hiring 800 E&S in 5 years
- ERDC University
- 100% Projects have Wiki's

Cut Acquisition Lead Time by 50%

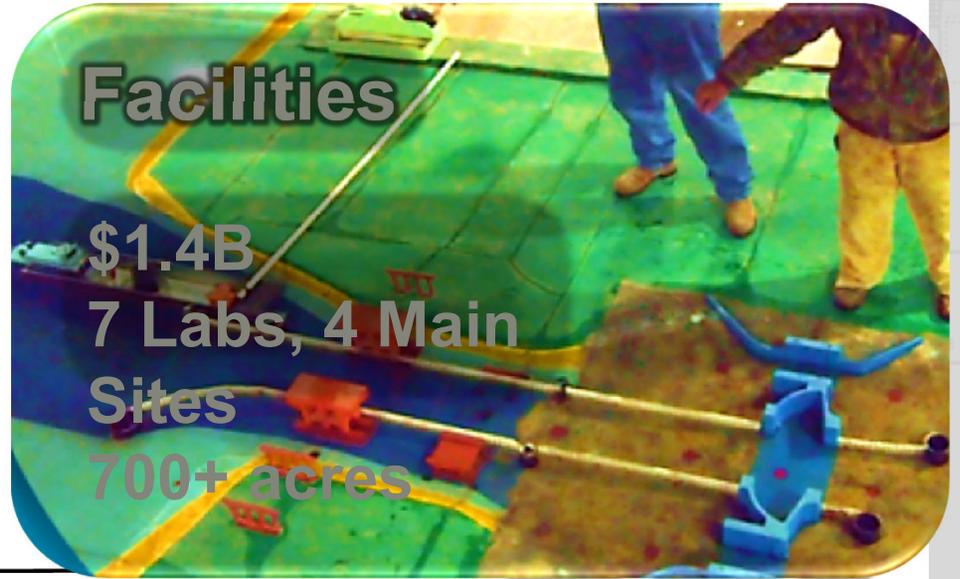
Facilities

\$1.4B

7 Labs, 4 Main

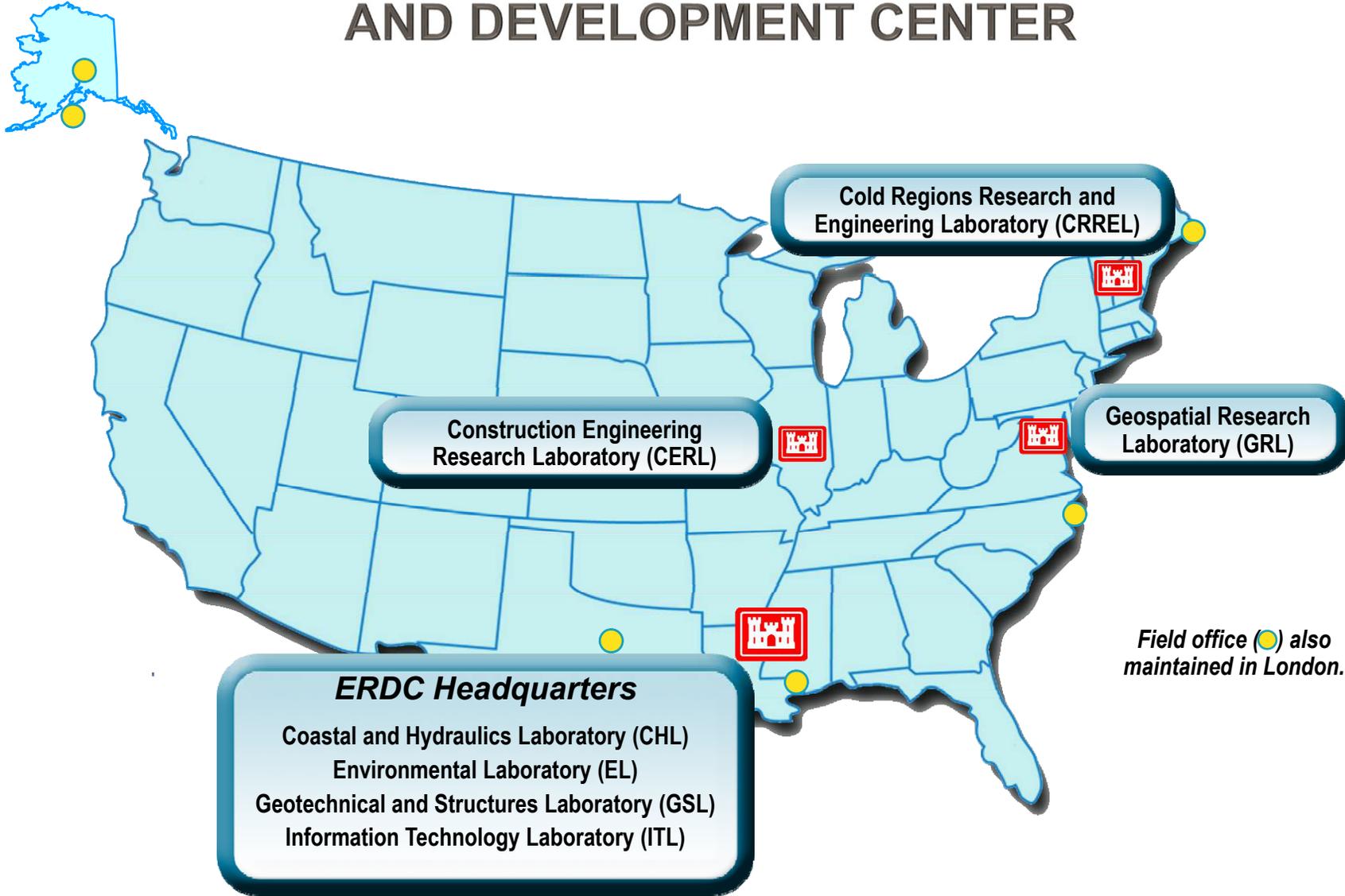
Sites

700+ acres



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UNCLASSIFIED

ERDC Business Areas



Military Engineering

- Force Protection
- Force Projection
- Manuever Support



Geospatial Research & Engineering

- Geospatially Enabled Computing Environments
- Geospatial Intelligence
- Human Geography



Engineered Resilient Systems

- Virtual Prototyping Environment
- Computational Proving Ground
- Tradespace Analytics



Environmental Quality & Installations

- Contingency Basing
- Environmental Lifecycle
- Training Lands
- Sustainable Infrastructure



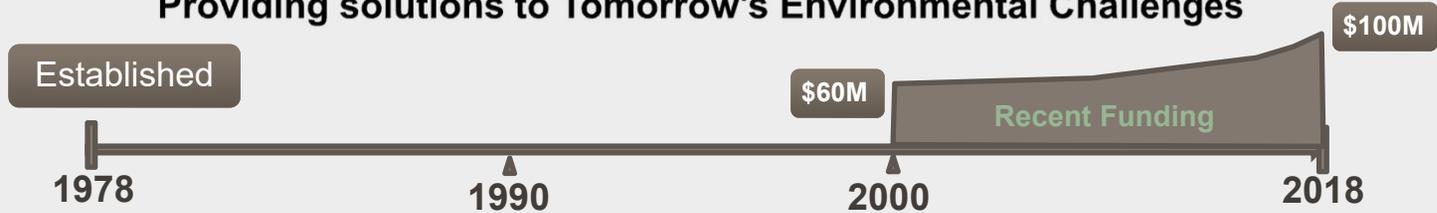
Civil Works

- Navigation
- Flood and Coastal
- Environment

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Environmental Laboratory

Providing solutions to Tomorrow's Environmental Challenges



History

Founded to address environmental issues related to dredged material

Today we are meeting the environmental challenges across military and civil works

Facilities

HQ



Lab Facilities

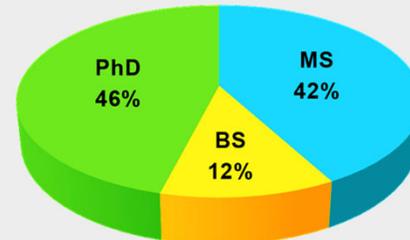
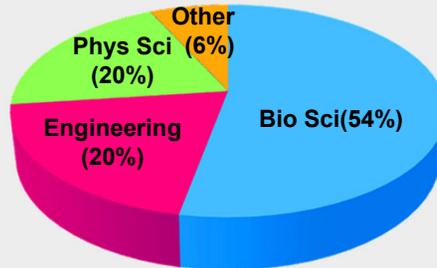
- Chemistry
- Hazardous Waste
- Toxicology
- Genetics
- Sediment
- Soil Geochemistry
- Aquatics & Wetlands
- WETRF
- Microbiology
- Geospatial Data Analysis
- Fate & Affects

Lewisville



People

Federal: 228
E&S Fed: 185



Laboratory Organization Chart

Research

Civil Works

ERDC Civil Works

Army S&T

Award Winning Solutions

Focus Areas

Environmental Laboratory Organization Chart

DIRECTOR
Dr. Ilker Adiguzel

DEPUTY DIRECTOR
Dr. Jack Davis

Senior Scientists

Dr. Todd Bridges
Dr. Ed Perkins

Management Integration Office

Technical Directors

Dr. Al Cofrancesco
Dr. Pat Deliman
Dr. Elizabeth Ferguson

Environmental Processes & Engineering Division

Mr. Warren Lorentz

Environmental
Chemistry

Environmental
Engineering

Environmental
Processes

Environmental
Risk
Assessment

Water Quality
& Contaminant
Modeling

Ecosystem Evaluation & Engineering Division

Mr. Mark Farr

Aquatic Ecology
& Invasive
Species

Environmental
Systems

Ecological
Resources

Wetlands &
Coastal Ecology

CIVIL WORKS R&D PORTFOLIO

