



ERDC OVERVIEW



**US Army Corps
of Engineers.**



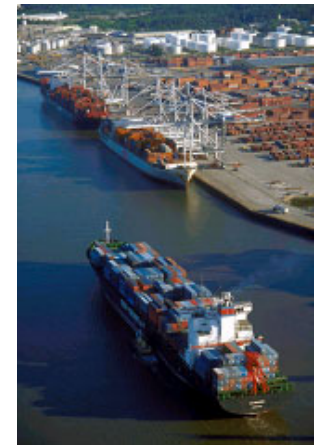
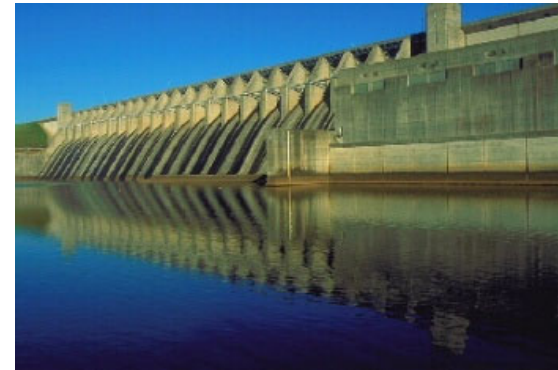
ERDC
ENGINEER RESEARCH & DEVELOPMENT CENTER



**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



ERDC

**Institute
for Water
Resources
(FOA)**

Trans-atlantic Division

**Gulf
Region
North**

Afghanistan
Eng North

Afghanistan
Eng. South

Pittsburgh

Civil Works Districts

Military- only Districts

**249th
Prime Power
Battalion**

**Marine
Design
Center (FOA)**

**Finance
Center
(FOA)**

**Logistics
Activity
Center
(FOA)**

**Army
Geospatial
Center**

**Huntsville
Engineering
& Support
Center**

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 NSA Army NSF
Navy Other USACE DoI

Processes

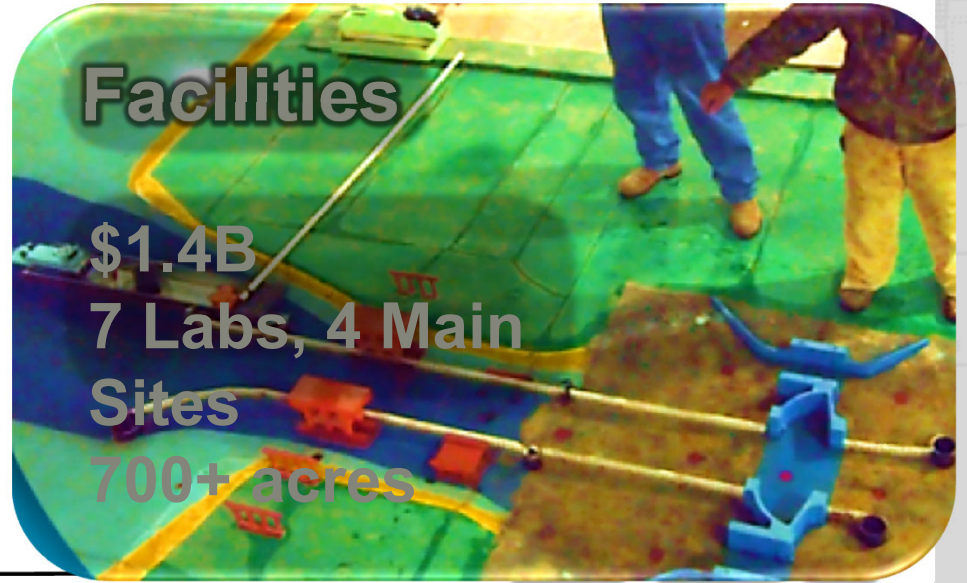
BESST

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

Cut Acquisition Lead Time by 50%

Facilities

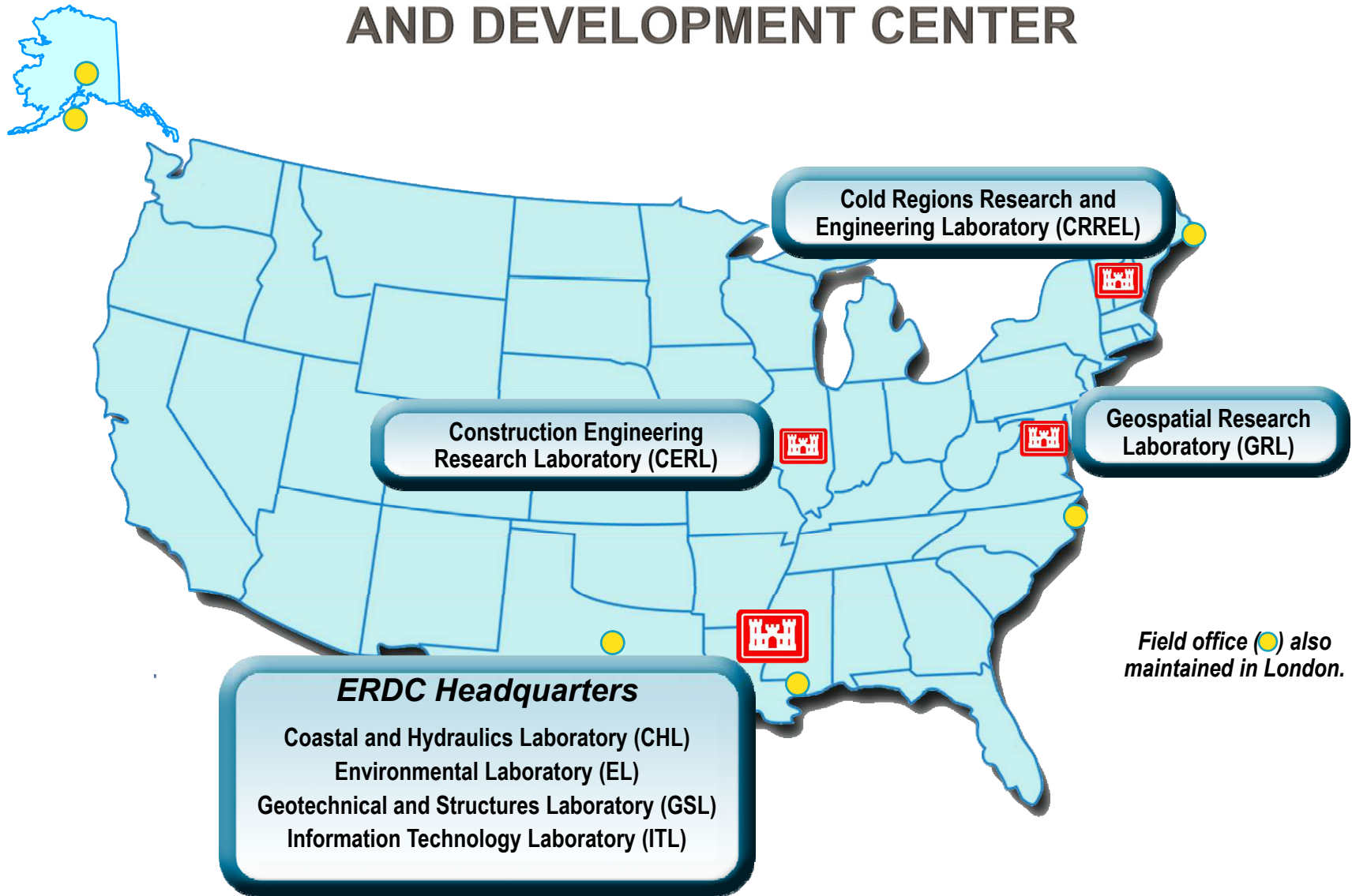
\$1.4B
7 Labs, 4 Main
Sites
700+ acres



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UNCLASSIFIED

U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER



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ERDC Business Areas

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Military Engineering

- Force Protection
- Force Projection
- Maneuver 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

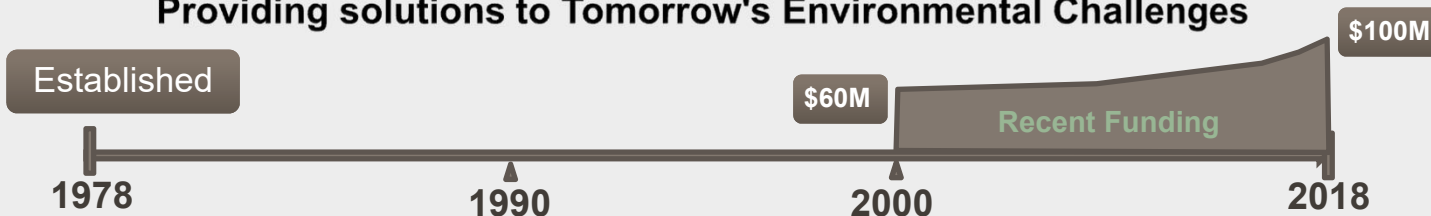
- Navigation
- Flood and Coastal
- Environment

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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

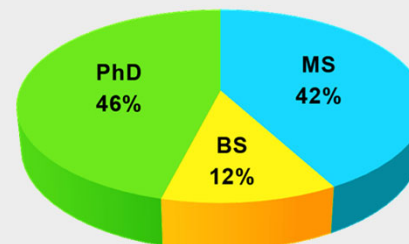
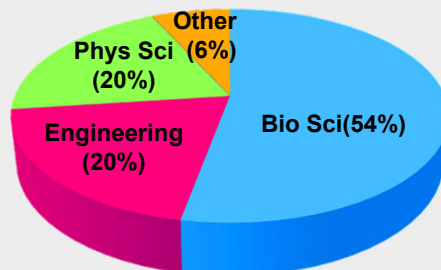
- Chemistry
- Hazardous Waste
- Toxicology
- Genetics
- Sediment
- Soil Geochemistry
- Aquatics & Wetlands
- WETRF
- Microbiology
- Geospatial Data Analysis
- Fate & Affects

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

