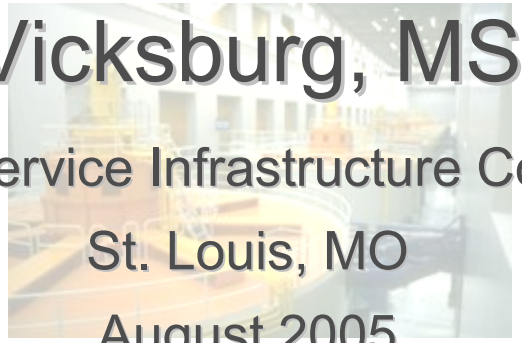
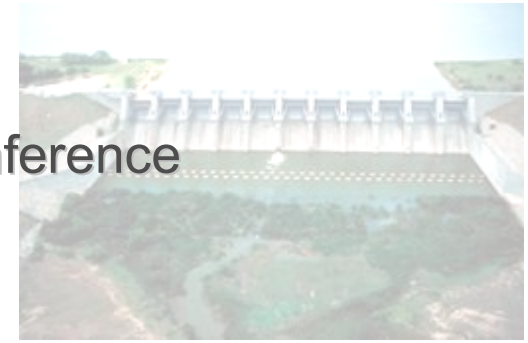
USACE Homeland Security Portal

Michael Pace

ERDC, ITL

Vicksburg, MS

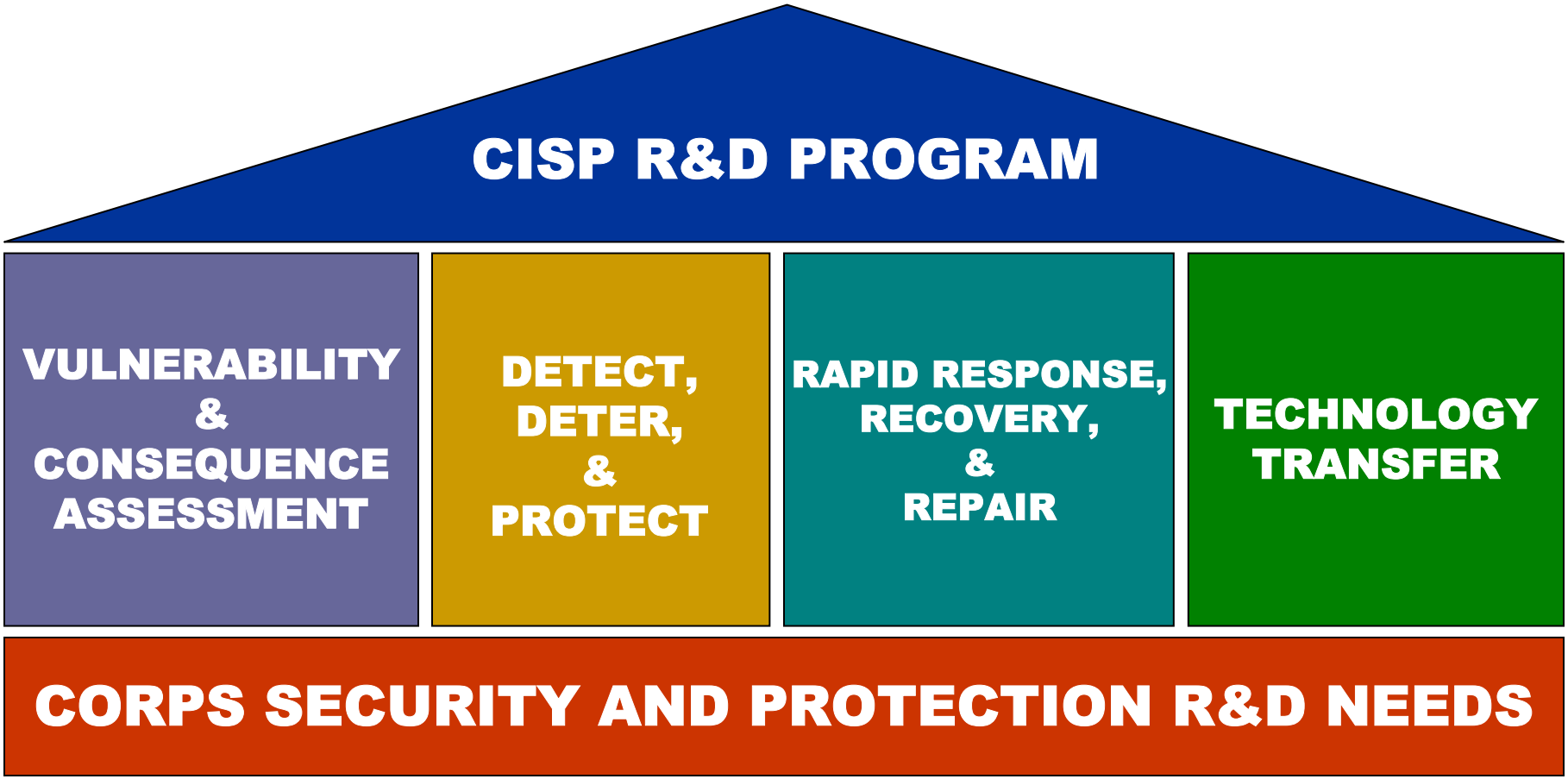
2005 Tri-Service Infrastructure Conference

St. Louis, MO

August 2005

ERDC Engineer Research and Development Center

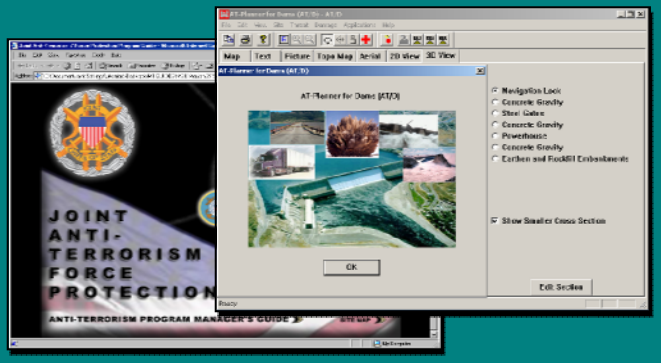
CISP R&D Program Formulation



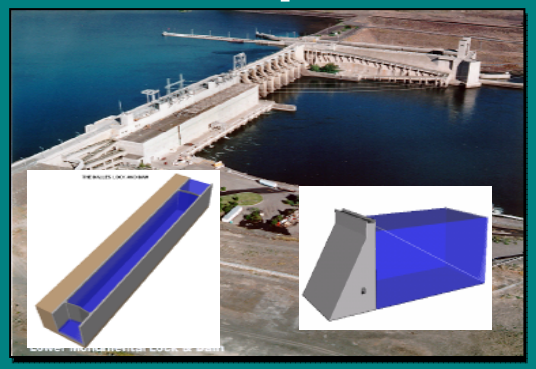
CISP Research Areas

Threat Definition

Integrated Decision Aid

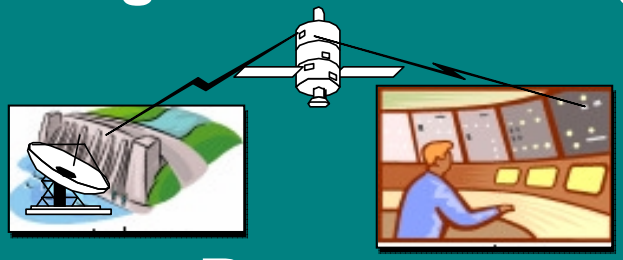


Facility Descriptions

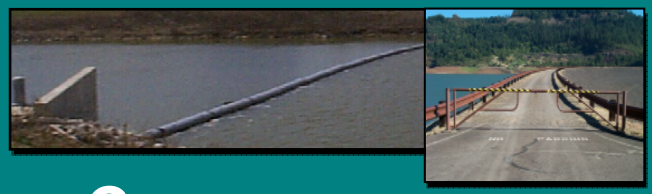


Blast Effects Damage Prediction

Regional Monitoring



Detect - Deter Protect



Recovery Measures

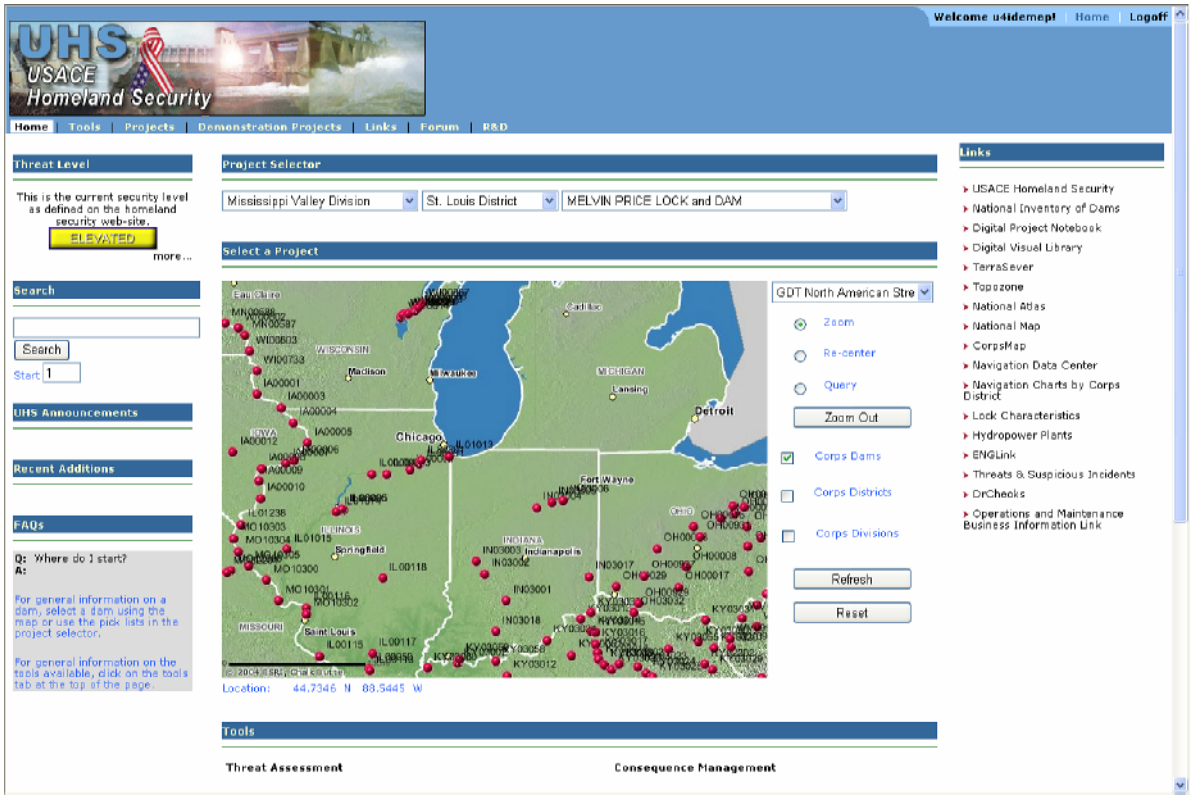
Consequence Assessment

Web Portal?

- Definition from Webopedia:
  - "*Commonly referred to as simply a portal, a Web site or service that offers a broad array of resources and services, such as e-mail, forums, search engines, and on-line shopping malls. The first Web portals were online services, such as AOL, that provided access to the Web, but by now most of the traditional search engines have transformed themselves into Web portals to attract and keep a larger audience*."

Objective

- Develop framework for efficiently managing data, documents, and tools with easy, controlled access to support Homeland Security needs

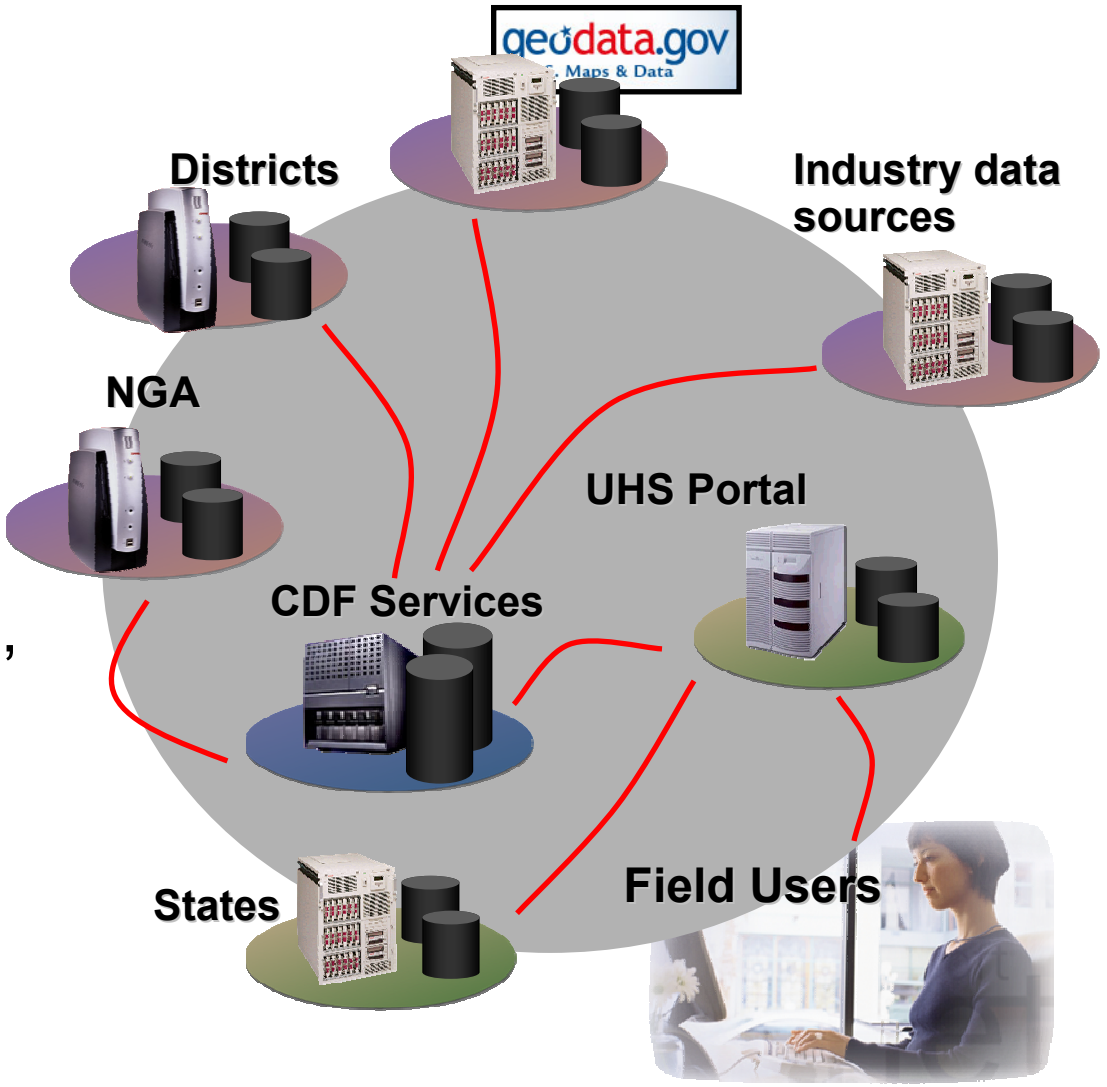


Portal Capabilities

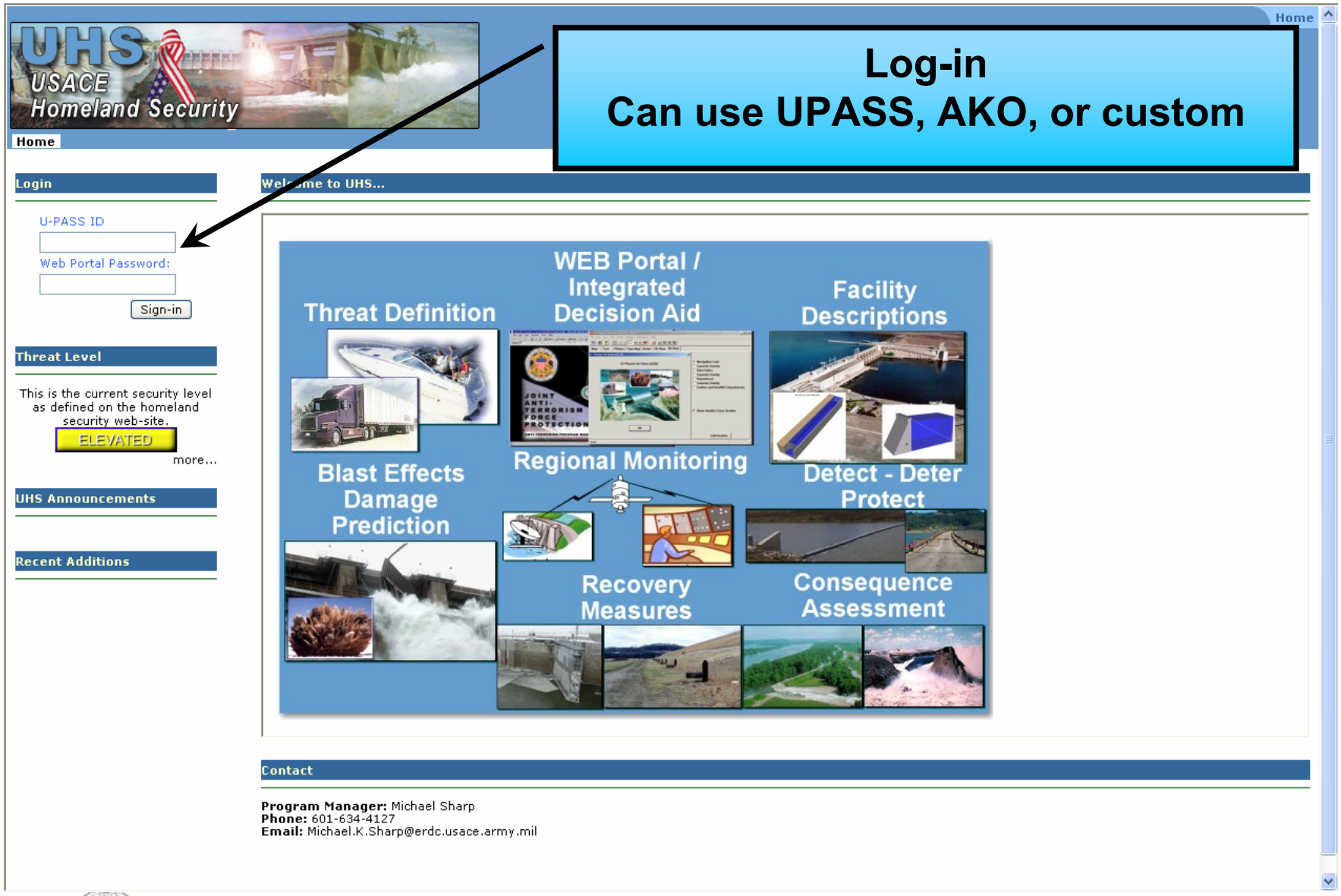
- Serves as the download site for R&D and security-related tools or models and the data required to perform assessments
- Provides repository of information pertaining to projects
  - Content management
  - HQ, Division, District level can add or delete data
- Provides central place to archive and search for data, data sources, documents, tools
  - Search web portal plus USACE and business partners
  - Retrieves data of interest from varied sources
- Lite GIS capability for viewing/analysis of assets

Data

- Driven by tool requirements
- Data sources
  - USACE (DPN, ENGLink)
  - Federal (USGS, NGA, DHS, Geospatial One-stop, etc.)
  - State agencies
  - Industry (ESRI, etc.)
- Published links and automated data retrieval



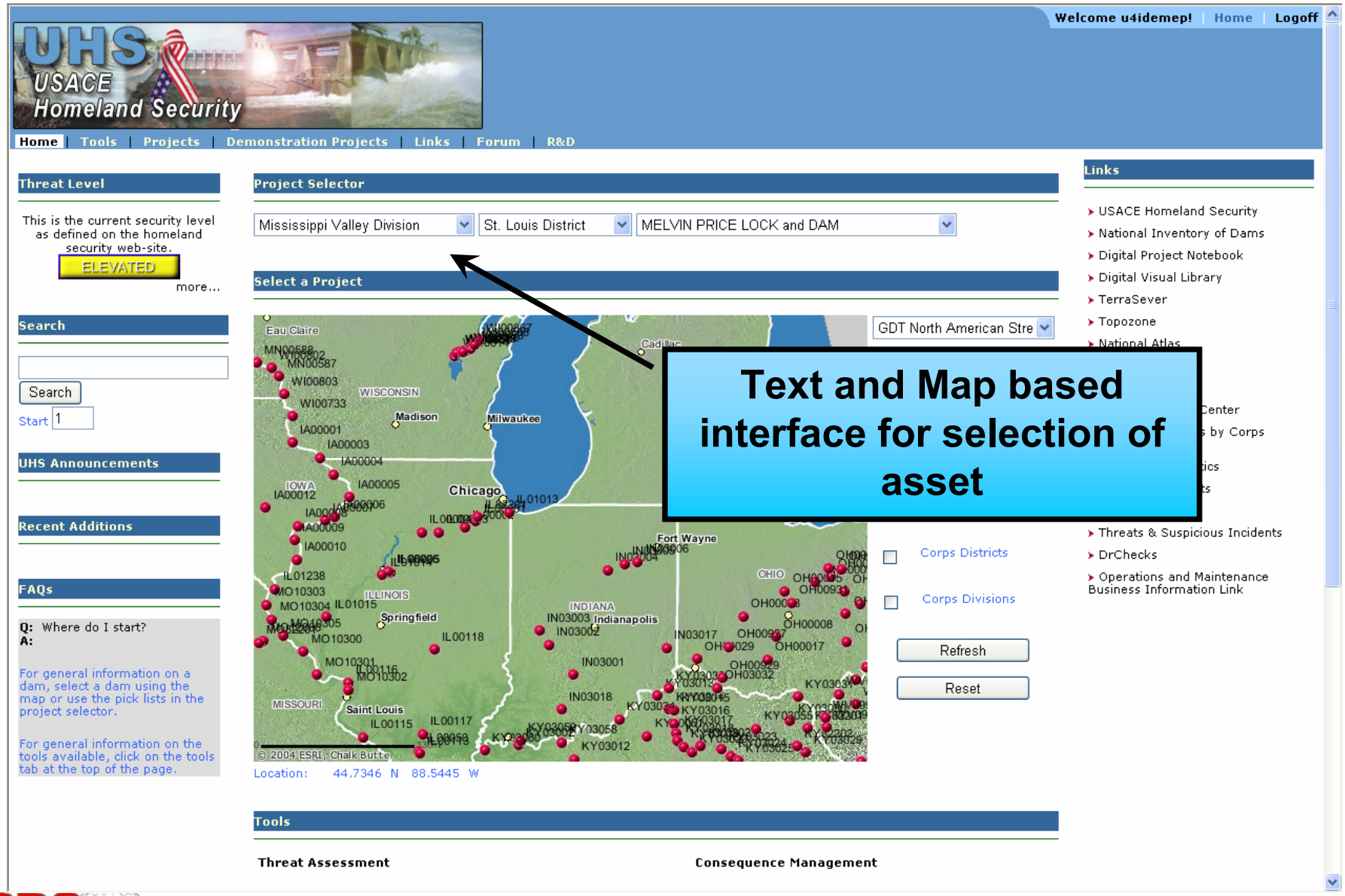
Controlled Access



Main Page

Welcome u4idemep! | Home | Logoff
UHS
USACE
Homeland Security
Home | Tools | Projects | Demonstration
Threat Level
Links to resources
Search Facility
Announcements
Recent Additions
FAQs
Threat Level
This is the current security level as defined on the homeland security web-site.
ELEVATED
more...
Project Selector
Mississippi Valley Division
St. Louis District
Select a Project
Search
Search
Start 1
UHS Announcements
Recent Additions
FAQs
Q: Where do I start?
A:
For general information on a dam, select a dam using the map or use the pick lists in the project selector.
For general information on the tools available, click on the tools tab at the top of the page.
GDT North American Stre
Zoom
Re-center
Query
Zoom Out
Corps Dams
Corps Districts
Corps Divisions
Refresh
Reset
Location: 44.7346 N 88.5445 W
Links
USACE Homeland Security
National Inventory of Dams
Digital Project Notebook
Digital Visual Library
TerraSever
Topozone
National Atlas
National Map
CorpsMap
Navigation Data Center
Navigation Charts by Corps District
Lock Characteristics
Hydropower Plants
ENGLink
Threats & Suspicious Incidents
DrChecks
Operations and Maintenance Business Information Link
Tools
Threat Assessment
Consequence Management

Main Page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Home | Tools | Projects | Demonstration Projects | Links | Forum | R&D
Threat Level
This is the current security level as defined on the homeland security web-site.
ELEVATED
more...
Search
Search
Start 1
UHS Announcements
Recent Additions
FAQs
Q: Where do I start?
A:
For general information on a dam, select a dam using the map or use the pick lists in the project selector.
For general information on the tools available, click on the tools tab at the top of the page.
Project Selector
Mississippi Valley Division
St. Louis District
MELVIN PRICE LOCK and DAM
Select a Project
GDT North American Stre
Eau Claire
Cadillac
Madison
Milwaukee
Chicago
Fort Wayne
Springfield
Indianapolis
Saint Louis
WISCONSIN
IOWA
ILLINOIS
INDIANA
OHIO
MISSOURI
© 2004 ESRI, Chalk Butte
Location: 44.7346 N 88.5445 W
Corps Districts
Corps Divisions
Refresh
Reset
Text and Map based interface for selection of asset
Links
USACE Homeland Security
National Inventory of Dams
Digital Project Notebook
Digital Visual Library
TerraSever
Topozone
Threats & Suspicious Incidents
DrChecks
Operations and Maintenance Business Information Link
Tools
Threat Assessment
Consequence Management

Main Page

UHS Announcements

Recent Additions

FAQs

Q: Where do I start?
A:

For general information on a dam, select a dam using the map or use the pick lists in the project selector.

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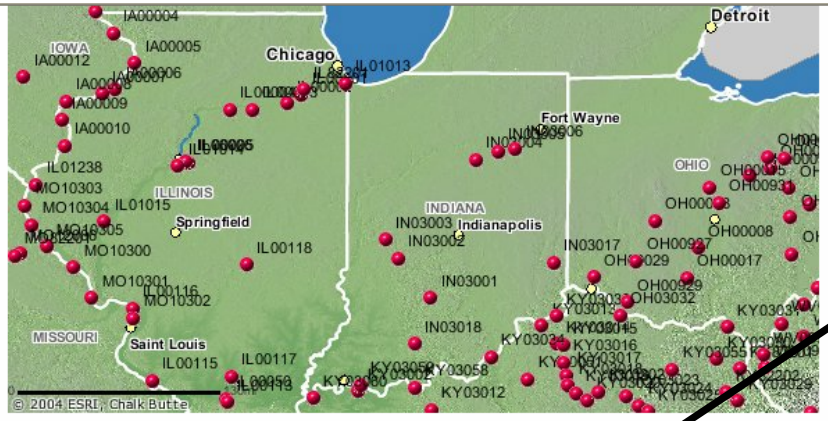


Location: 44.7346 N 88.5445 W

Zoom Out

- Corps Dams
- Corps Districts
- Corps Divisions

- Lock Characteristics
- Hydropower Plants
- ENGLink
- Threats & Suspicious Incidents
- DrChecks
- Operations and Maintenance Business Information Link

Quick access to tools

Tools

Threat Assessment

- TSI Database
- SEPA Process - PDC

Consequence Assessment

- Assessment of Relief Well Damage to Embankments
- 2D Dam Break – Adaptive Hydraulics Model
- Scour and Erosion

Protection Methods / Design Guides

- Waterside protection
- Waterborne attack detection
- Mitigation of Truck Bomb Craters on Embankment Dams
- Regional Monitoring

Consequence Management

- Rapid Recovery for Lock and Dam Gates

Vulnerability Assessment

- AT Planner for Dams
- AT Planner for Buildings
- BEEM
- CONWEP
- Bridge Tools

Risk Assessment

- RAM-D (spreadsheet version)
- DAMSVR

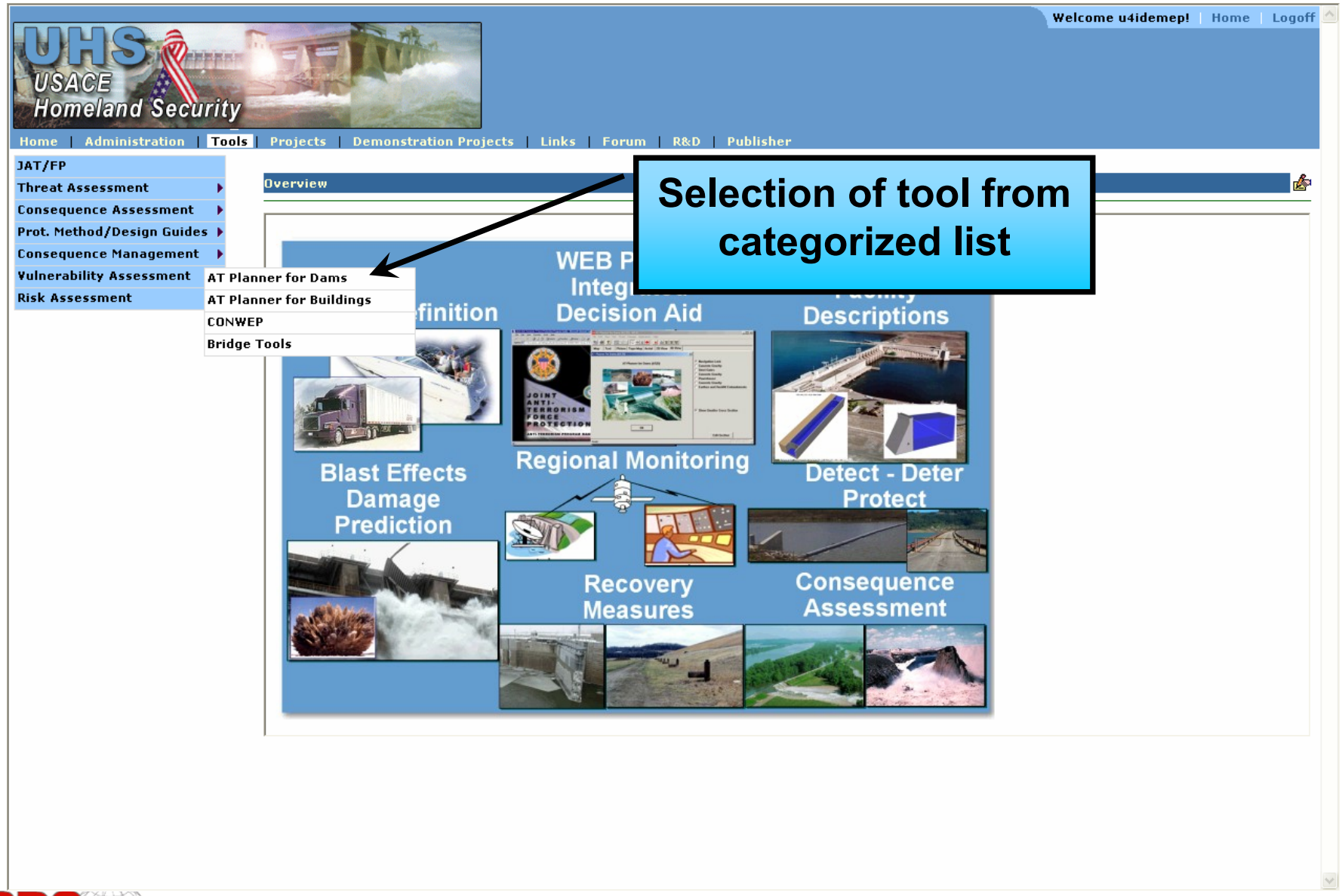
JAT/FP Tools

Contact

Program Manager: Michael Sharp
Phone: 601-634-4127
Email: Michael.K.Sharp@erdc.usace.army.mil

ERDC Engineer Research and Development Center

Tools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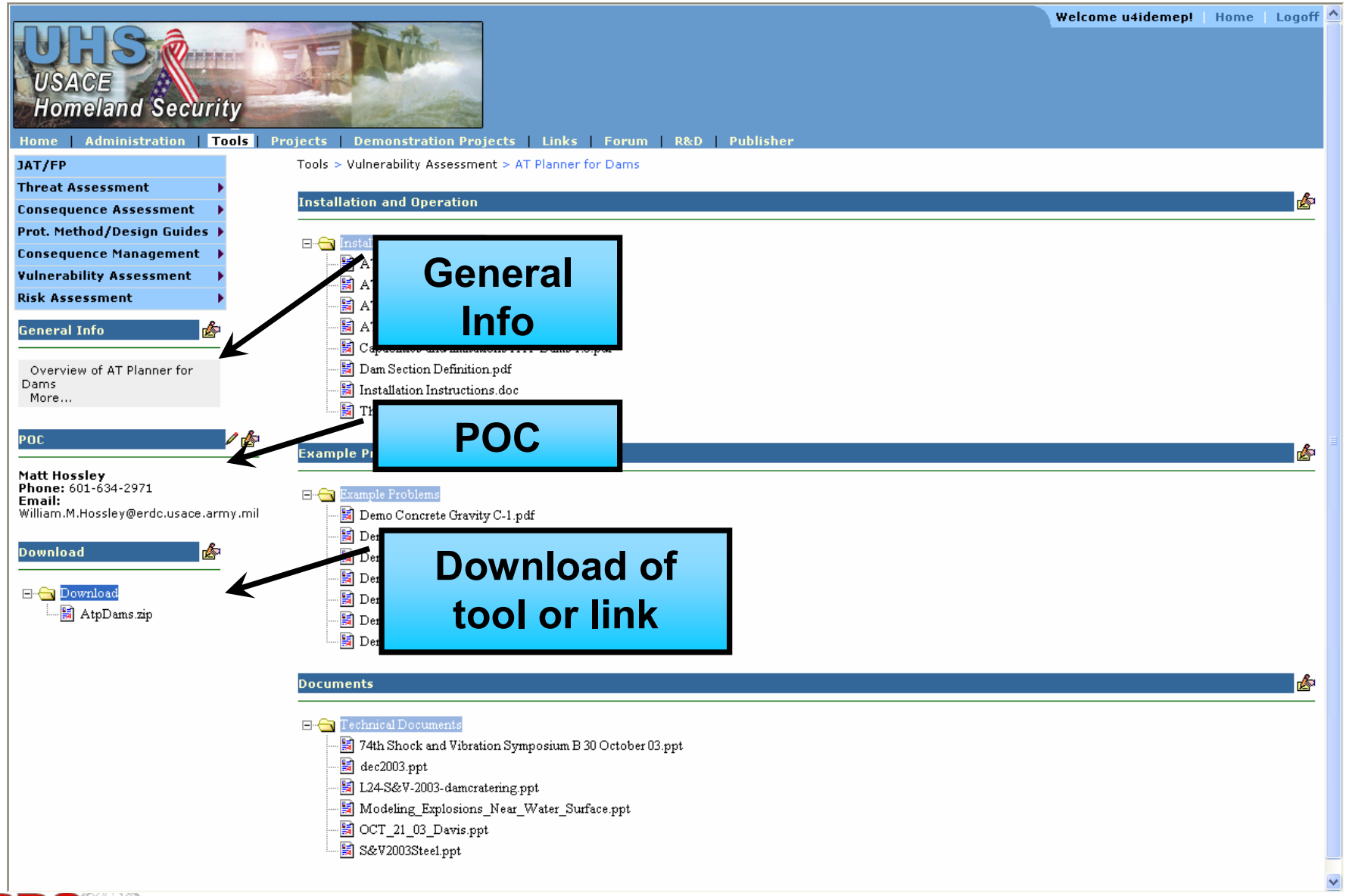
Prot. Method/Design Guides
Consequence Management
Vulnerability Assessment
Risk Assessment
AT Planner for Dams
AT Planner for Buildings
CONWEP
Bridge Tools
Overview
Selection of tool from categorized list
Decision Aid
Descriptions
Regional Monitoring
Blast Effects
Damage
Prediction
Detect - Deter
Protect
Recovery
Measures
Consequence
Assessment

Tools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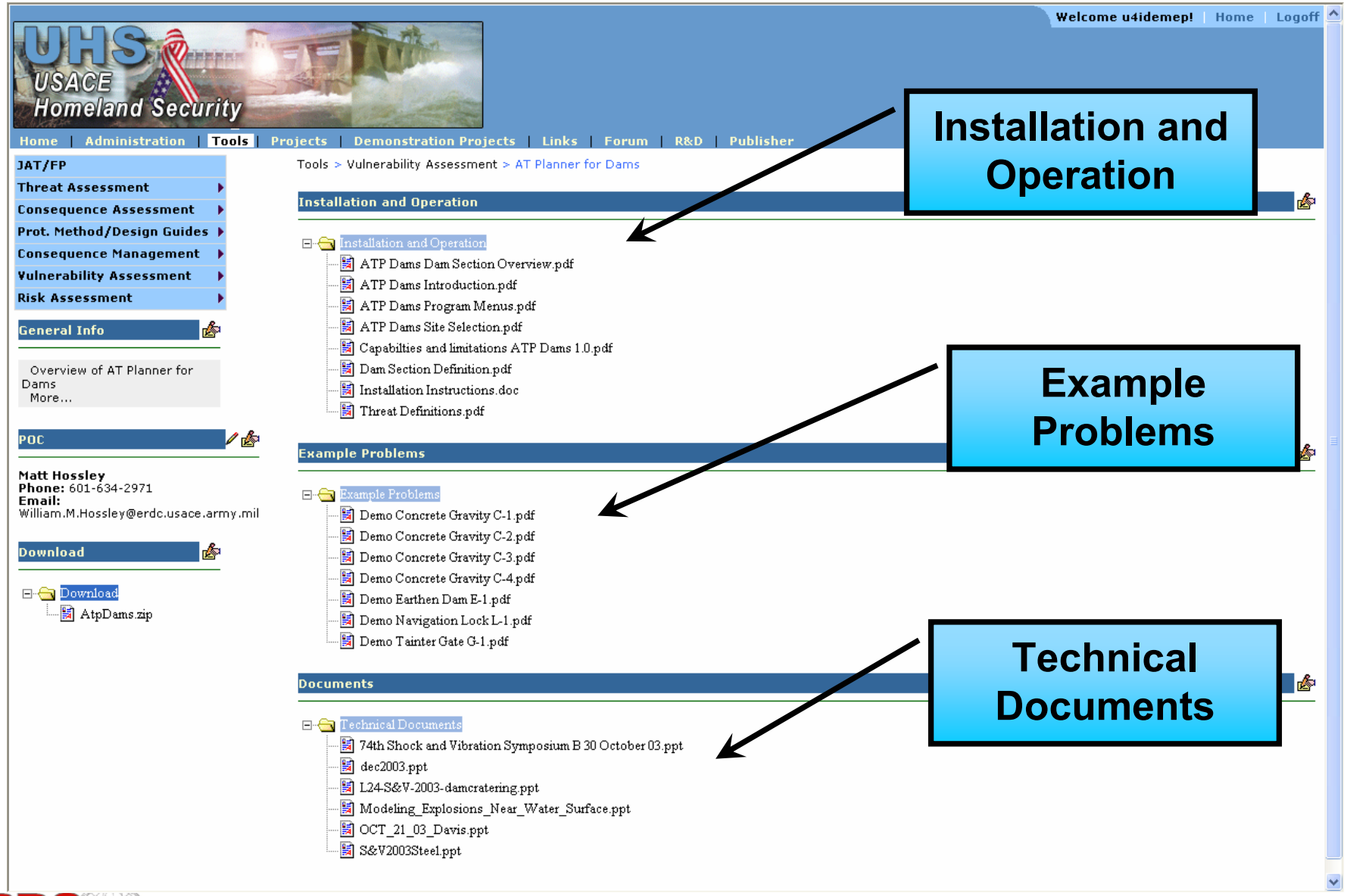
Vulnerability Assessment
Risk Assessment
General Info
Overview of AT Planner for Dams
More...
POC
Matt Hossley
Phone: 601-634-2971
Email:
William.M.Hossley@erdc.usace.army.mil
Download
Download
AtpDams.zip
Tools > Vulnerability Assessment > AT Planner for Dams
Installation and Operation
Dam Section Definition.pdf
Installation Instructions.doc
Example Problems
Demo Concrete Gravity C-1.pdf
Documents
Technical Documents
74th Shock and Vibration Symposium B 30 October 03.ppt
dec2003.ppt
L24-S&V-2003-damcratering.ppt
Modeling_Explosions_Near_Water_Surface.ppt
OCT_21_03_Davis.ppt
S&V2003Steel.ppt
General Info
POC
Download of tool or link

Tools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Phone: 601-634-2971
Email:
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Tools > Vulnerability Assessment > AT Planner for Dams
Installation and Operation
Installation and Operation
ATP Dams Dam Section Overview.pdf
ATP Dams Introduction.pdf
ATP Dams Program Menus.pdf
ATP Dams Site Selection.pdf
Capabilties and limitations ATP Dams 1.0.pdf
Dam Section Definition.pdf
Installation Instructions.doc
Threat Definitions.pdf
Example Problems
Example Problems
Demo Concrete Gravity C-1.pdf
Demo Concrete Gravity C-2.pdf
Demo Concrete Gravity C-3.pdf
Demo Concrete Gravity C-4.pdf
Demo Earthen Dam E-1.pdf
Demo Navigation Lock L-1.pdf
Demo Tainter Gate G-1.pdf
Documents
Technical Documents
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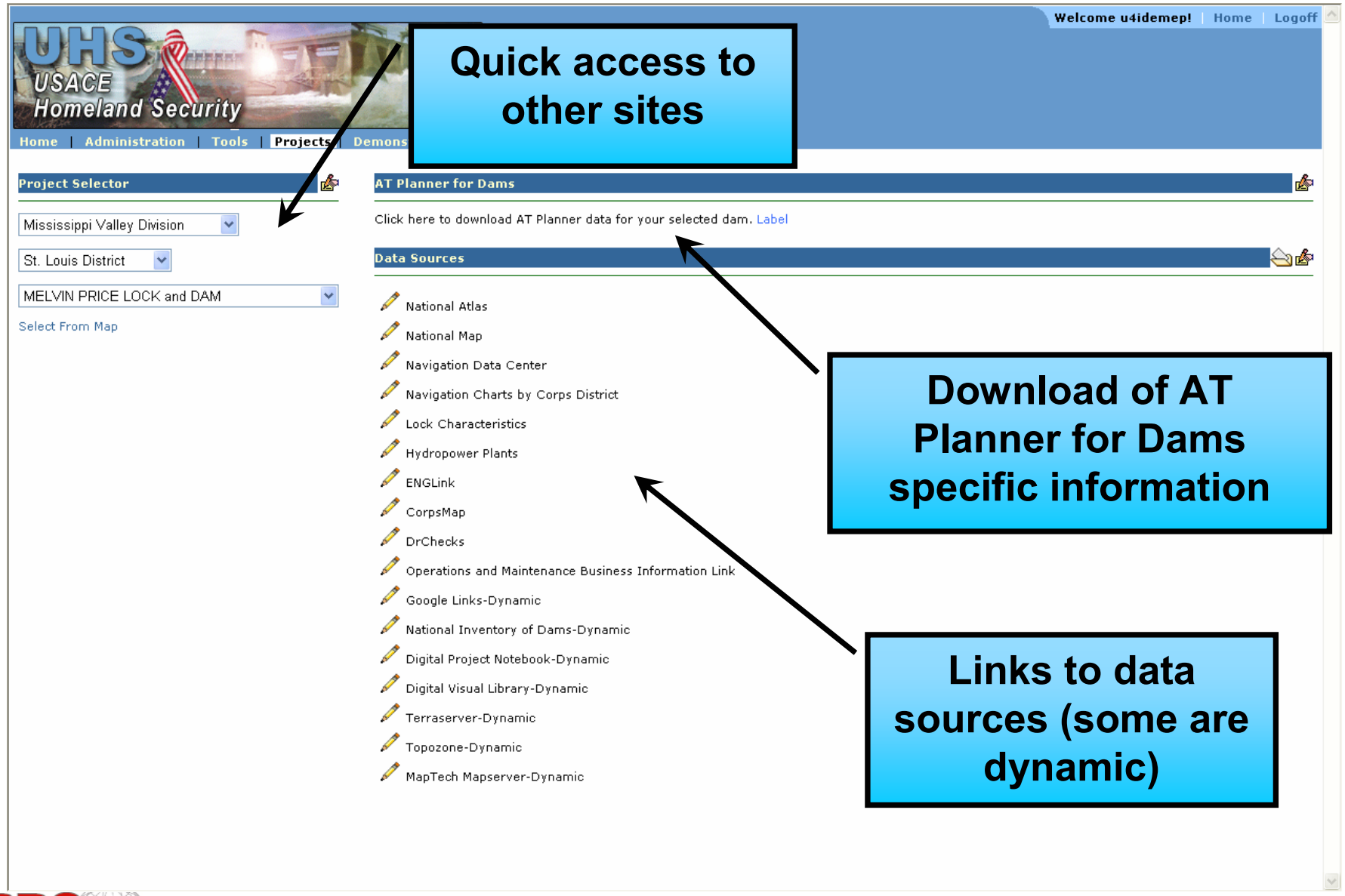
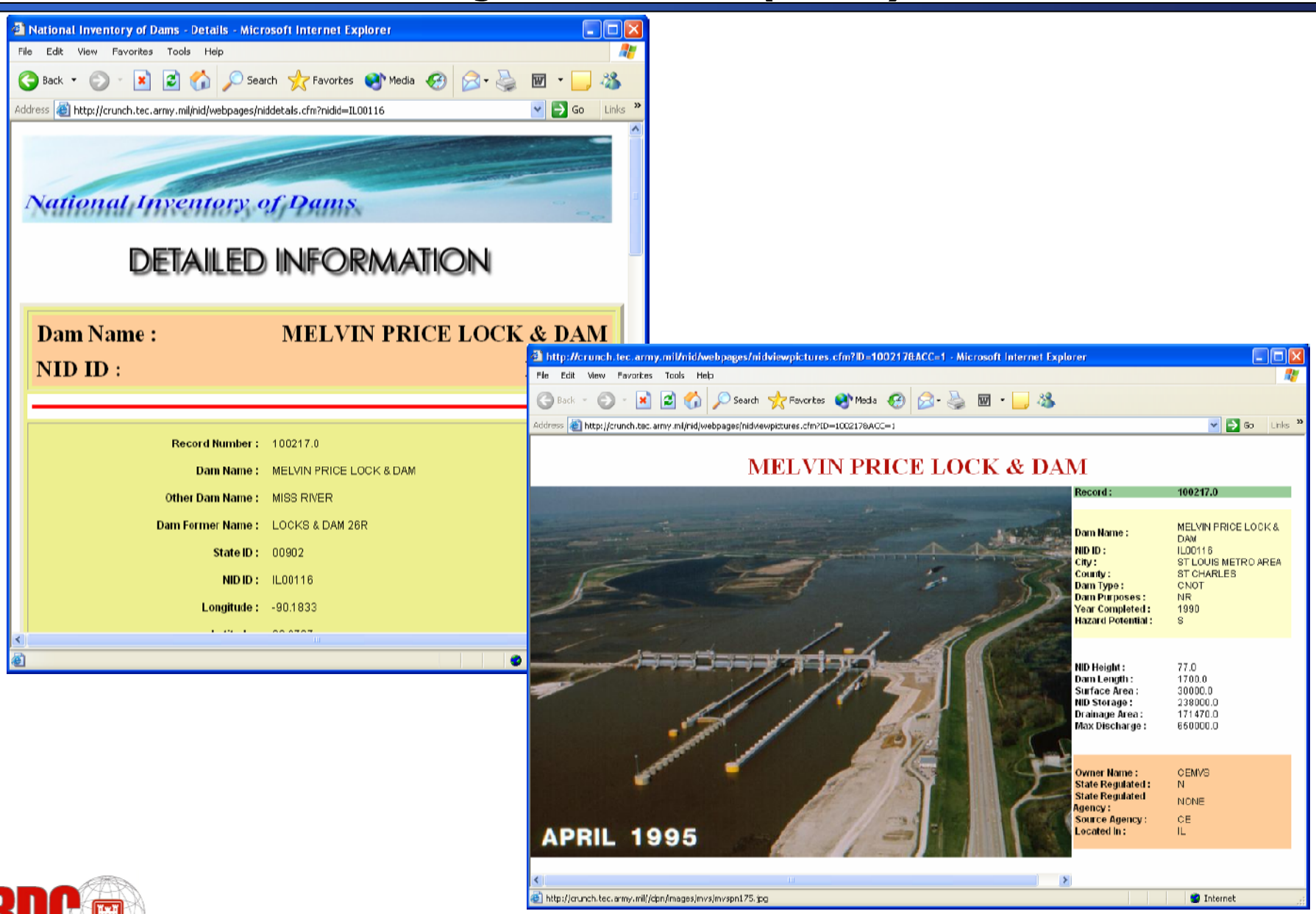
S&V2003Steel.ppt
Installation and Operation
Example Problems
Technical Documents

Project Info



Project Info (NID)



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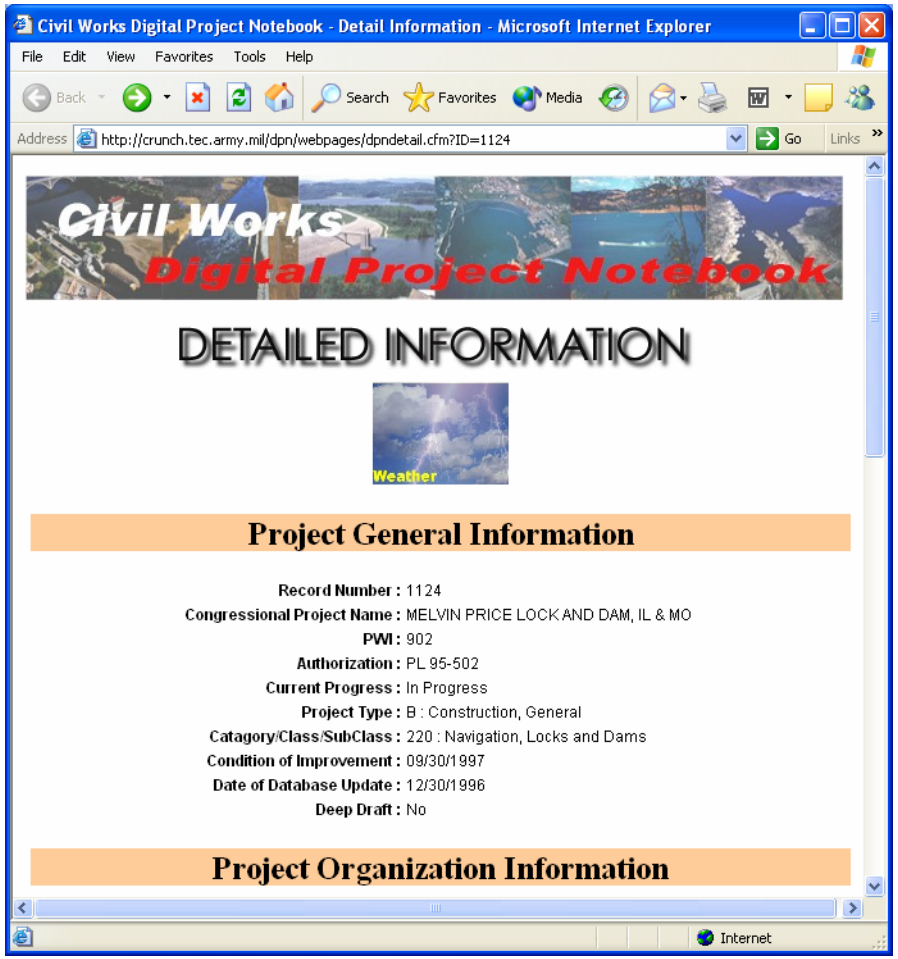
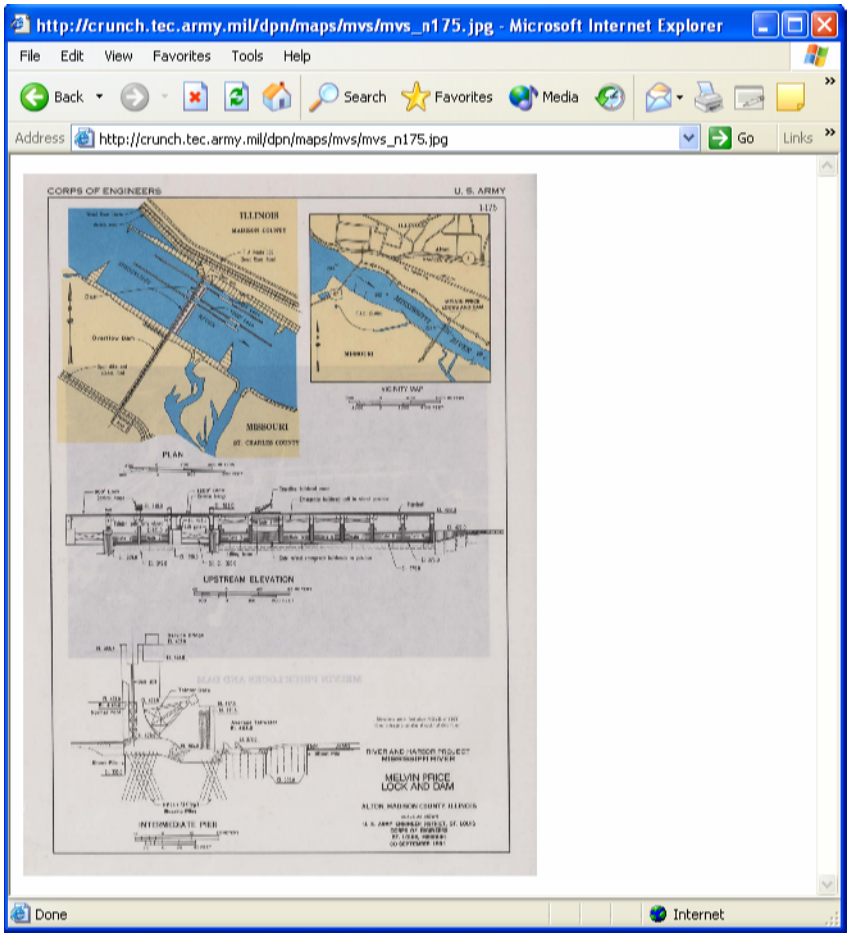
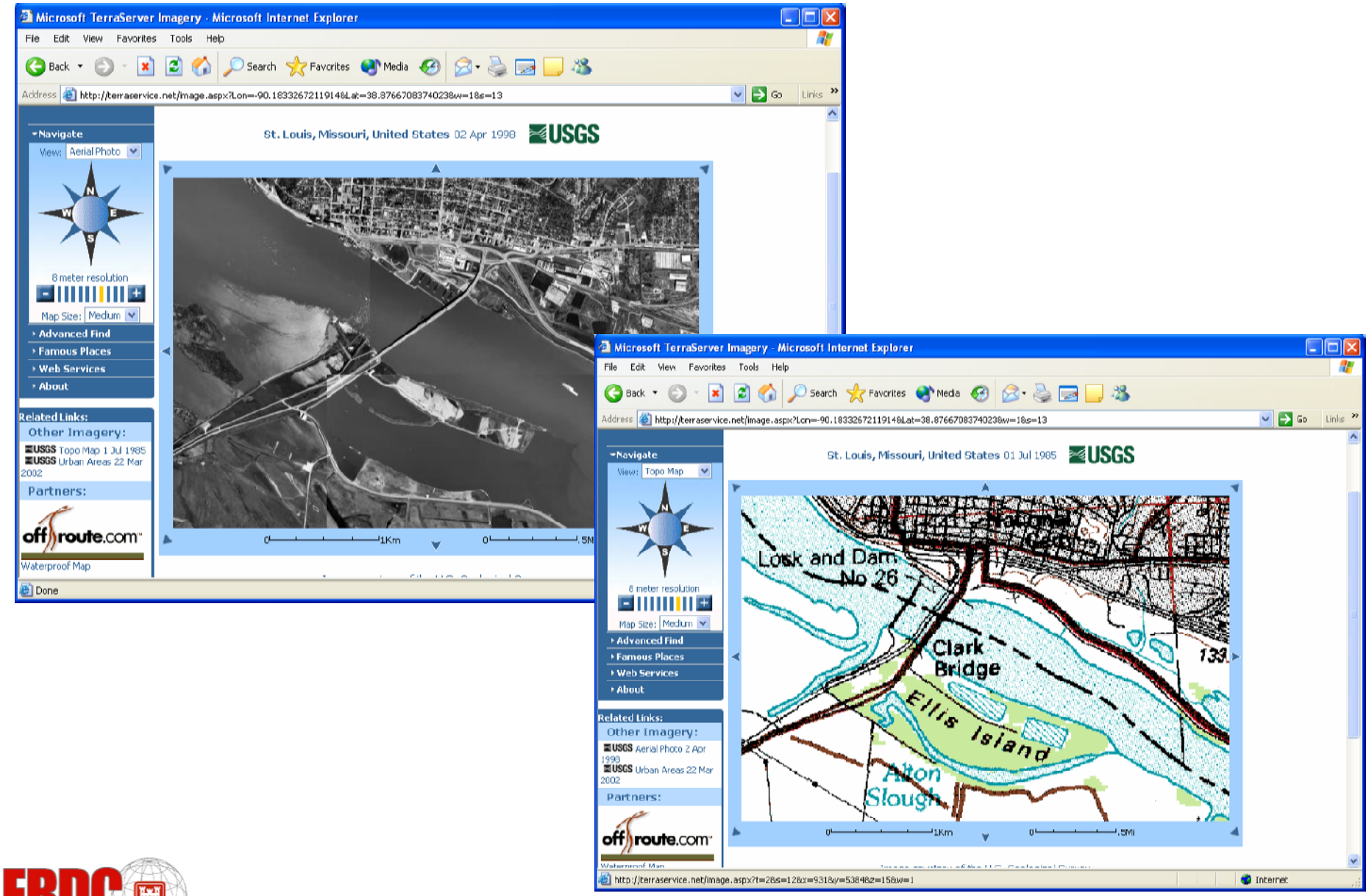


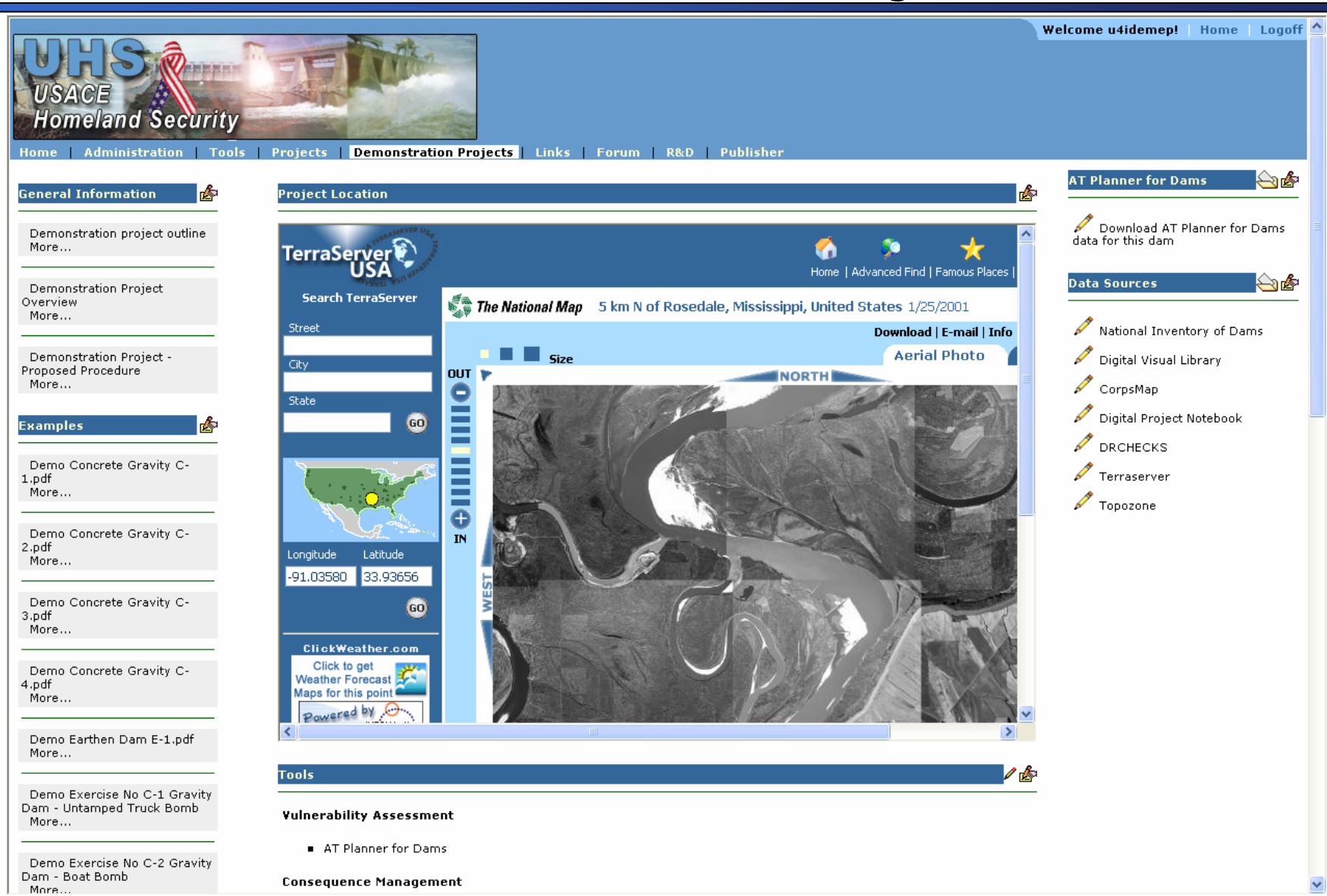


Project Info (DVL)

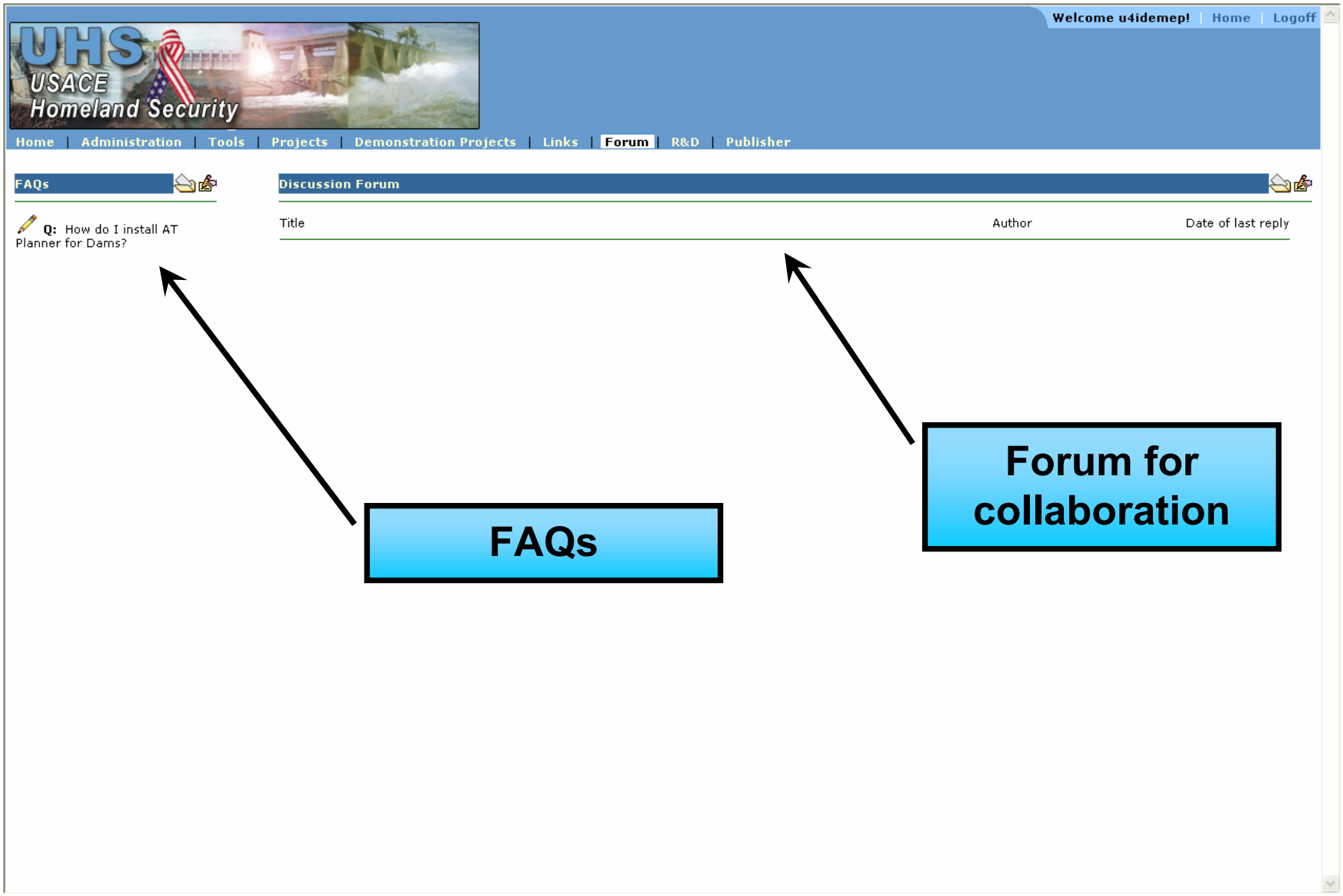
Project Info (TerraServer)



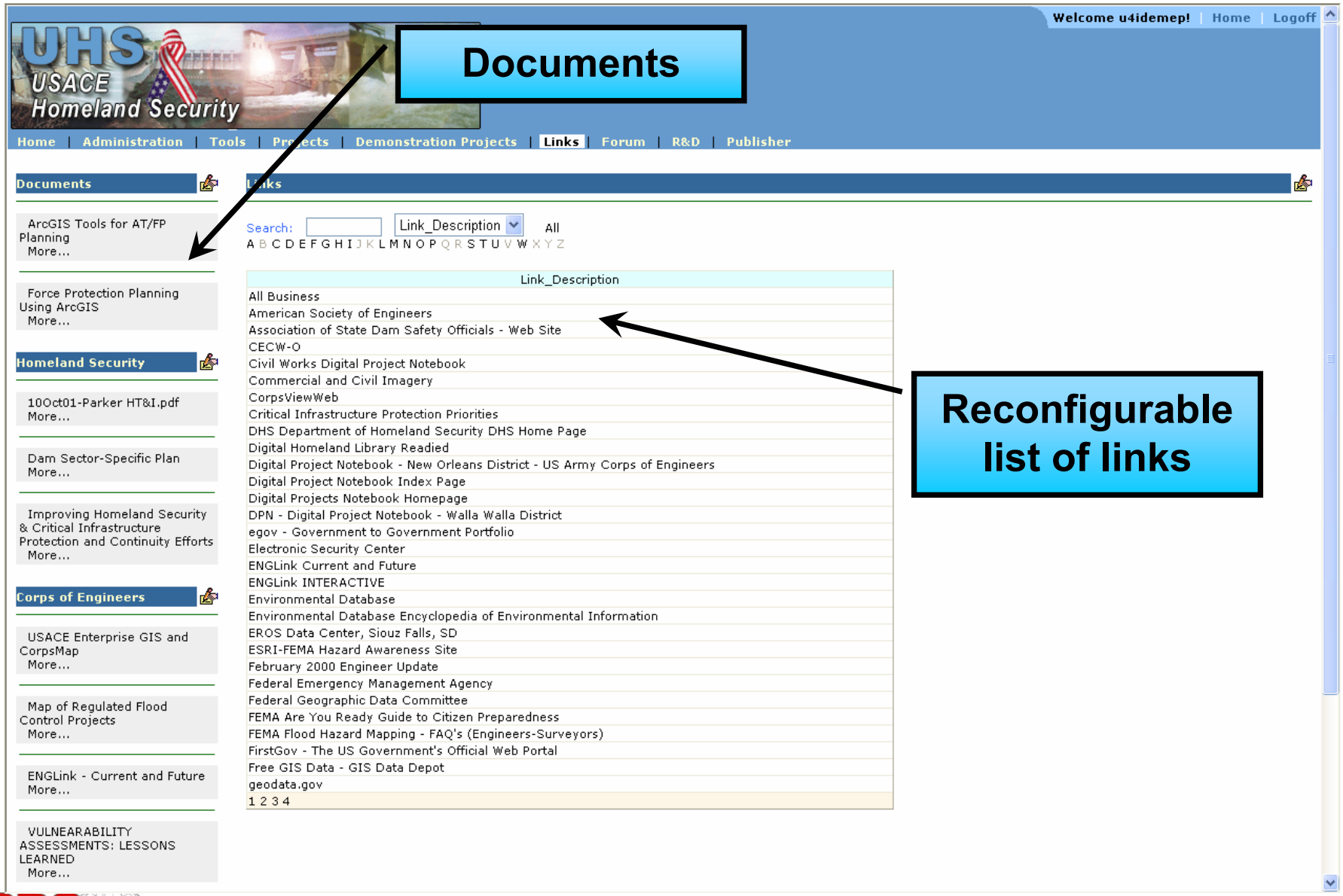
Demonstration Project



FAQs and Forum



Links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Force Protection Planning Using ArcGIS
More...
Homeland Security
10Oct01-Parker HT&I.pdf
More...
Dam Sector-Specific Plan
More...
Improving Homeland Security & Critical Infrastructure Protection and Continuity Efforts
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Corps of Engineers
USACE Enterprise GIS and CorpsMap
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Map of Regulated Flood Control Projects
More...
ENGLink - Current and Future
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VULNEARABILITY ASSESSMENTS: LESSONS LEARNED
More...
Links
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Link_Description
All
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Link_Description
All Business
American Society of Engineers
Association of State Dam Safety Officials - Web Site
CECW-O
Civil Works Digital Project Notebook
Commercial and Civil Imagery
CorpsViewWeb
Critical Infrastructure Protection Priorities
DHS Department of Homeland Security DHS Home Page
Digital Homeland Library Readied
Digital Project Notebook - New Orleans District - US Army Corps of Engineers
Digital Project Notebook Index Page
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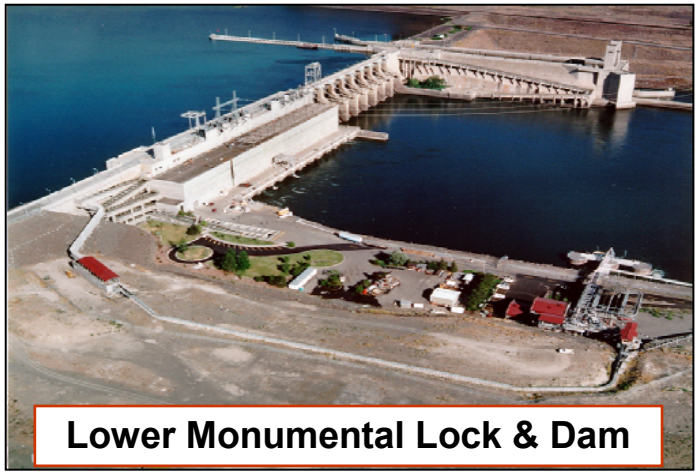
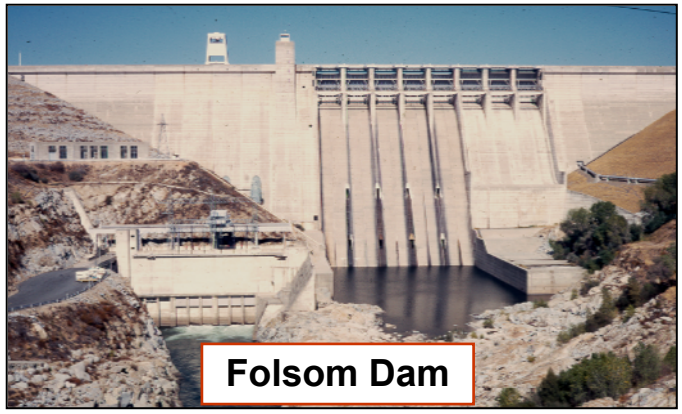
DPN - Digital Project Notebook - Walla Walla District
egov - Government to Government Portfolio
Electronic Security Center
ENGLink Current and Future
ENGLink INTERACTIVE
Environmental Database
Environmental Database Encyclopedia of Environmental Information
EROS Data Center, Siouz Falls, SD
ESRI-FEMA Hazard Awareness Site
February 2000 Engineer Update
Federal Emergency Management Agency
Federal Geographic Data Committee
FEMA Are You Ready Guide to Citizen Preparedness
FEMA Flood Hazard Mapping - FAQ's (Engineers-Surveyors)
FirstGov - The US Government's Official Web Portal
Free GIS Data - GIS Data Depot
geodata.gov
1 2 3 4
Reconfigurable list of links

Future R&D

R&D in support to Baseline Security Posture and USACE Homeland Security Strategic Plan (FY07-11).



Lower Monumental Lock & Dam



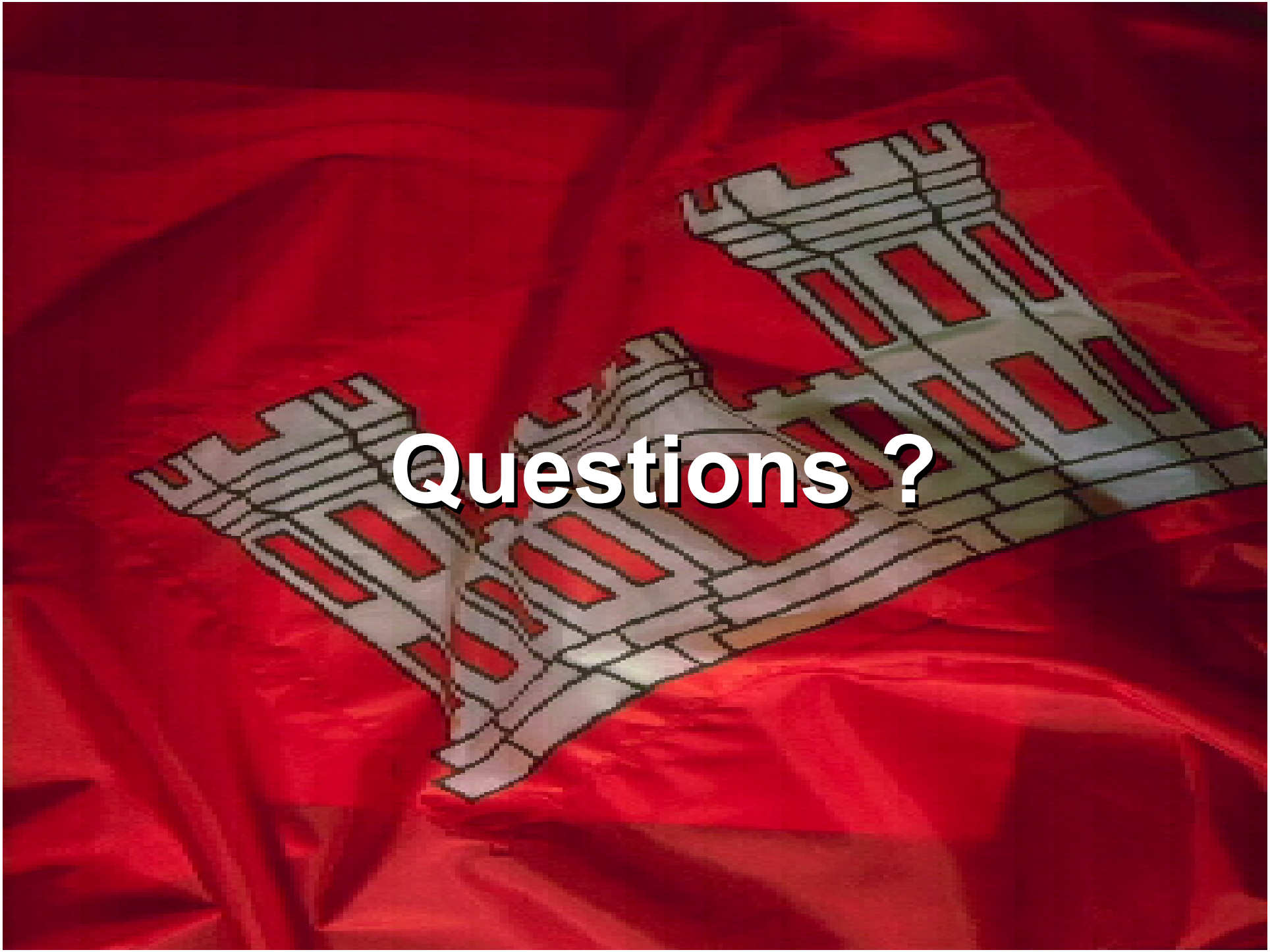
Folsom Dam

- **Integrated assessment procedures.**
- **Standardized risk/vulnerability procedures for evaluation of post-BSP security upgrades.**

ERDC Engineer Research and Development Center

Summary

- Portal will provide:
  - Features
    - Secure easy access
    - Collaboration tools (forum), Lite GIS, Content management, Automated retrieval of data
  - Documents and Data
    - Data for district projects (RAM-D reports, design documents, ATP-D data files, etc.)
    - Sources of data (ENGLink, DPN, Corps sites, NSDI clearinghouse nodes, etc.)
  - Tools
    - RAM-D, ATP-D, R&D tools, other security related tools


Questions ?