



PLANNING MODERNIZATION LINE OF EFFORT 4, DATA AUTOMATION : THE CW STUDY TRACKER, A WORK IN PROGRESS

**Monique Savàge, Senior Water
Resource Planner, HQ
Ashleigh Boss, Biologist, Institute
for Water Resources
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***“Delivering Bold Solutions to Serve and
Strengthen All Communities”***



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AGENDA

- PCoP Automation Goals
- FY25 Work
- Demonstration of the CW Study Tracker
 - What is Power BI & Why It Matters
 - Overview of the study tracker
 - Key Features & Use Cases
 - Access & Support
 - Live Demo
 - Q&A
- What others are doing
- Discussion
- Questions





AUTOMATION GOALS

- Make CW study data
 - Accessible
 - Visible
 - Understandable
- Capitalize on existing systems
- Ensure study data is AI ready
- Be able to operate and maintain the information





WHAT WE HAVE BEEN WORKING ON IN FY25

- Acquired funds to operate and maintain existing technologies in FY 26
 - eRR, national structure inventory, RECONS, IWR planning suite, etc.
- Investigated multiple AI chatbot opportunities
 - NIPRGPT, ADVANTA, VANTAGE, USACE GPT (BETA)
- Creating a data dictionary and documenting authoritative data sources
 - PROMIS, eRR, HERON, CSPI
- Making P2 information useful and visible
 - Power BI



*more on PROMIS <https://usace.dps.mil/sites/PROMIS/SitePages/Training.aspx>



WHAT IS POWER BI

- A data visualization and reporting platform
 - Useful for non-technical users
- Interactive dashboards
 - Drill-down capabilities
 - Insights at all levels of the organization
- Connects to authoritative information sources





POWER BI TERMINOLOGY

Workspace: A container for organizing reports, dashboards, and datasets within the Power BI service.

Dashboard/Report: A single-page view that provides a high-level overview of key performance indicators (KPIs) and critical data points, often containing multiple visualizations.

Visualizations: The various types of charts, graphs, and tables used to present data in a visual format, enabling easy understanding and analysis.

Data Source: The location or file where the data used in the Power BI report is stored, such as databases, spreadsheets, or cloud services.

Data Model: The structure of the data within Power BI, including tables, relationships, and measures, which allows for efficient data analysis and reporting.

Interactive Elements:

Filters/Slicers: Allow users to narrow down the data displayed in a visualization, focusing on specific subsets or criteria.

Cross-filtering: A feature that allows interactions between visualizations, where selecting a point in one visualization filters the data displayed in other visualizations.

Bookmarks: Allow users to save specific views or filters of a report, making it easy to return to those views later.

Comments: Allow users to add notes or insights to specific areas of a report or dashboard.



ANATOMY OF POWER BI

Welcome to the Civil Works (CW) Studies Tracker!

This tool is still in Beta Testing and being frequently updated.

This report has been developed for Planning staff at all levels of the USACE organization to easily track the execution of Civil Works study efforts.

The report:

- Connects to multiple data sources including EDW, CEFMS, and P2 data repositories with daily data refreshes
- Allows authorized personnel to join information from various systems with human input information
- Allows users to quickly filter and drill into specific data points
- Share insights securely

Navigating the Report

Here's how to move through and interact with this report:

1. Page Navigation

- Use the tabs at the left (or bottom, depending on how you're viewing) to switch between different report pages.
- This report includes the following pages:
 1. **Welcome!:** This is the page you're currently using and simply provides information on using the report
 2. **Planning Study Dashboard:** Use this page to gain key insights regarding studies in your AoR
 3. **Scheduled Dates Calendar:** Use this page to quickly see Current P2 schedule dates for studies laid out on a dynamic calendar
 4. **Spreadsheet for Export:** Use this page if you'd like to see Project identification information in the same table as milestone information
 5. **Potential Studies:** Use this page to try to identify studies not being tracked in the report.
 6. **HQ Study Initiation (Restricted):** This form is used by approved personnel at HQ to submit and edit human input fields for studies. This information is then displayed in the Planning Study Dashboard page alongside system data from P2 and CEFMS.

2. Filters and Slicers

- At right side of most pages, you'll see a filters pane
- Use these to refine the data by selecting parameters
- Click Reset (the green circle with a backwards arrow in the upper right corner) to clear all filters and return to the default view.

Navigate
Enterprise
Power BI

ANATOMY OF POWER BI

Bookmark

Screen
Size

Reset

Expand/Collapse
the Pages pane

Share/Export report

CW Study Tracker | Data updated 8/6/25

Pages

Welcome!

CW Study Dashboard

Current Project Schedul...

Spreadsheet for Export

Potential Studies

HQ Study Initiation (Res...

File

Export Share

Get insights

Subscribe to report

Edit

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Navigate
report
pagesFilter
Pane

Zoom controls



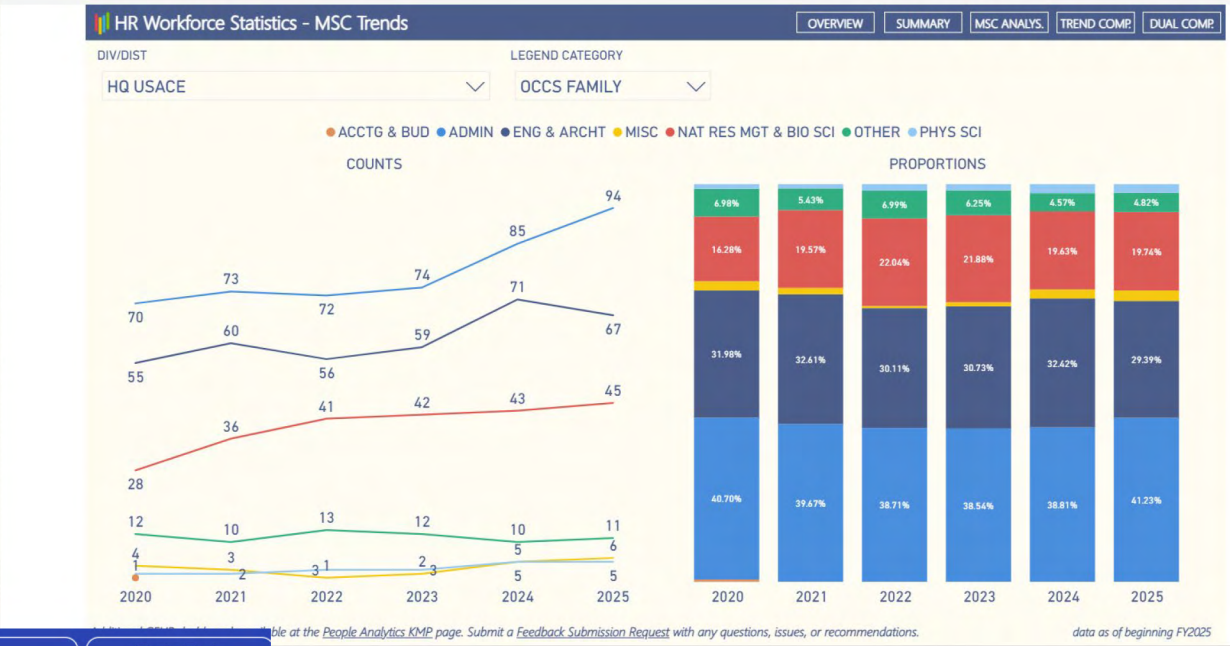
LIVE DEMO



Q&A



WHAT OTHERS ARE DOING WITH POWER BI



☐ ACTIVE THIS FY

LRD CAP OVERVIEW

Data Date May 15, 2025

Approved Inactive

Closed Terminated

Deferred

Total Projects 318

Total Obligation \$268M

Feasibility \$30M

D&I \$66M

Closeout \$41M

Project Complete \$131M

Business Line

Business Line	Percentage
Aquatic Ecosystem Restoration	20.75%
Modifications to Structures and ...	9.75%
Navigation	6.6%
Beneficial Uses of Dred...	5.03%
Mitigation ...	3.77%
Snagging a...	1.26%
Flood Control	21.07%
Emergency Streambank/Shoreline ...	27.99%

District

District	Percentage
LRN	8.18%
LRE	25.79%
LRH	11.01%
LRC	13.84%
LRL	14.15%
LRB	18.24%

Started Before / After FY16

Period	Percentage
PRE-FY16	69.5%
FY16-20	18.87%
FY21+	11.64%

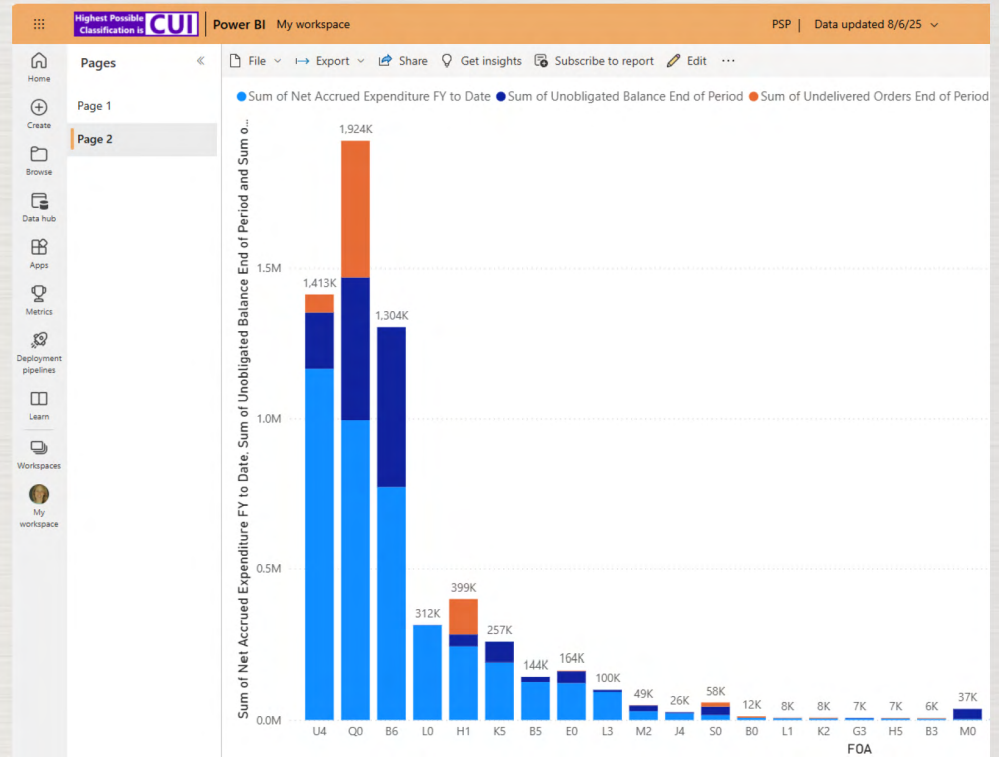
District	Project Name	Program Code	Phase	Project Workflow Status	Business Line	Total Obligation
LRB	14 Canadaway Creek Sewerline	161162	Closeout	Inactive	CAP - Emergency Streambank/Shoreline Protection	\$826,508
LRB	103 Broderick Park, Buffalo, NY	328958	D&I	Approved	CAP - Beach Erosion Control	\$691,398
LRB	107 Mentor Harbor, OH	331955	D&I	Inactive	CAP - Navigation	\$642,630
LRB	107 Ogdensburg, NY	323654	D&I	Inactive	CAP - Navigation	\$1,812,181
LRB	14 Golden Hill State Park Lighthouse	468466	D&I	Closed	CAP - Emergency Streambank/Shoreline Protection	\$87,184
LRB	14 Lake Ontario, Old Fort Niagara, Youngstown, NY	468121	D&I	Approved	CAP - Emergency Streambank/Shoreline Protection	\$1,007,414
LRB	204 Ashtabula Reg Sed Mgmt	154395	D&I	Approved	CAP - Beneficial Uses of Dredged Material	\$8,968,725
LRB	204 Black River Wetland Creation, Lorain OH	467563	D&I	Inactive	Environment - Ecosystem Restoration	\$900,420
LRB	204 Buffalo RSM @ Outer Harbor	461119	D&I	Approved	CAP - Beneficial Uses of Dredged Material	\$6,497,334
LRB	204 Lake Erie Coastal Wetlands, Fairport, OH	467448	D&I	Inactive	CAP - Beneficial Uses of Dredged Material	\$785,798

FY16-20 PRE-FY16

FY21+

Closeout Feasibility Phase

D&I Project Complete





OPEN DISCUSSION

What other ongoing data automation efforts?



QUESTIONS?



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