COASTAL INLETS RESEARCH PROGRAM PROGRAM MANAGEMENT

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**U.S. ARMY** 

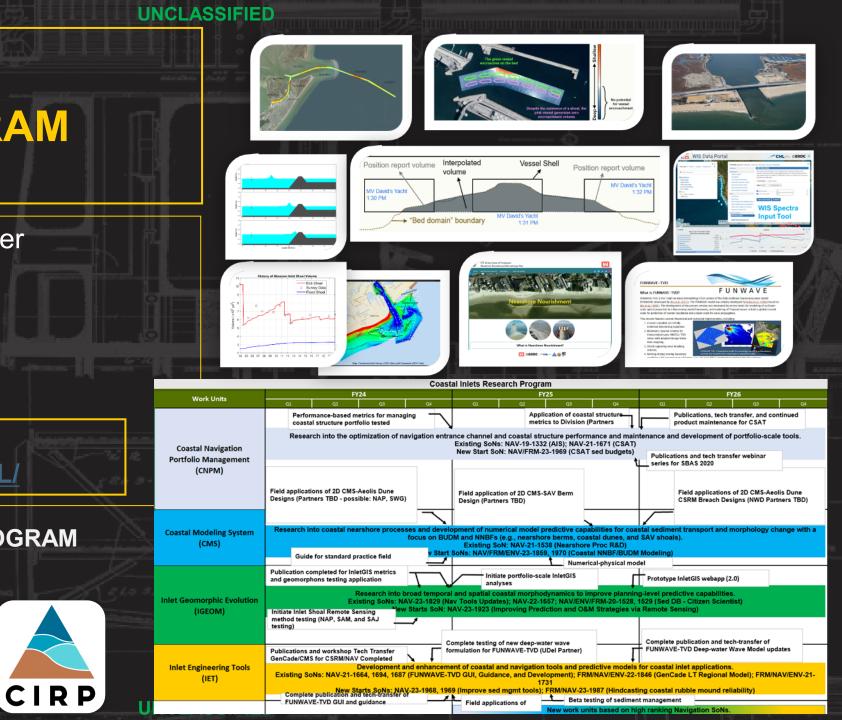
WEBSITE: HTTPS://CIRP.USACE.ARMY.MIL/

**US Army Corps** 

of Engineers.

**COASTAL INLETS RESEARCH PROGRAM** FY24 IN PROGRESS REVIEW

ERDC



## **THE CIRP'S PROGRESS**

Recall that we had no budget for FY24.

We executed \$2.538M; down to \$132K Carry Over 18 R&D Projects 9 ORISE projects | 4 Contracts 114 Milestones | CHL tracked ~20 major Milestones

Tech Transfer – CIRP Tech Discussion webinars (15) and support internal and external workshops at all levels (Engineer, Divisions, Conferences); Conferences and Journal Articles Mentoring (Torres) and growing CIRP teams (ORISE)

### **THE CIRP PROGRESSES**

#### FUNCTIONAL TACTICAL CW R&D PROGRAM

FY25 has 11 R&D Projects consisting of 1 New Starts, 6 FY24 Starts, 3 Existing Projects, and 1 final year project

PBUD is \$2.3M (1 new start) with potential to execute planned \$3.1M w/ appropriations

#### **TECHNICAL FOCUS**

Sediment Transport Morphodynamic Model Advancement (CMS/AEOLIS/GENCADE) for future NBS/NNBF/BUDM Applications

CHS Portfolio analysis of Coastal Structures (LRD 1ST)

Next Generation Sediment Budget Tech (SBAS/CSAT)

Coastal Inlet/Port Shoal Detection & Analysis Tools (INLET ATLAS) and ML Shoal detection (CoastSat & more) FUNWAVE-TVD Dev Updates and Guidance for Structure Overtopping Wrap

#### **IN PROGRESS REVIEW**

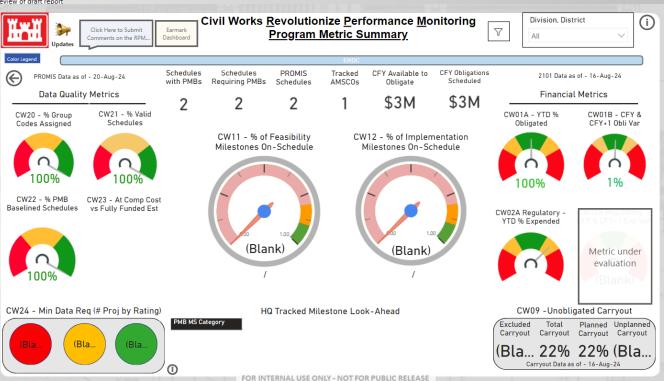
Review of a project or program at critical points to evaluate its status or performance and make recommendations

Planning the work, Programming the \$\$, Balance the Budget, check your Resources, and Execute the mission.

Did we do that?

#### **REVOLUTIONIZE PROJECT MANAGEMENT**

				-			
		ACTUAL DATE	Project	MULTET			
CA/PM - ALL CIRP PROJECTS PLANNED AND APPROVED (COMPLETED PMPS)	31-Mar-23				PMP Development Completion and approve	al of PIVIP	
CA/TT - IN PROGRESS REVIEWS	19-Apr-24				In Process Review (IPR)		
CA/CSM AEOLIS - COMPLETED TESTING OF FULLY INTEGRATED 2D AEOLIS-CMS MODEL; D					Alpha Testing		
CA/FY23 CMS C2SHORE- COMPLETED TESTING OF FULLY INTEGRATED SWASH, BAR, AND					Alpha Testing		
CA/FY23 SMS/TT - RELEASE CMS 5.2 ERDC GITHUB (VERSIONED)	19-Apr-24				Prototype Completion of working prototype		
TASK 16: UPDATES & TECHNICAL SUPPORT FOR THE COASTAL MODELING SYSTEM (CMS)	30-Apr-25		500958		Contract Award Date for awarding contract		
CA/CSAT - CODE RELEASE WITH REPORTED PRECISION, EXPANDED DATASET (JABLTCX), PI	19-Apr-24			RD280 /	Prototype Completion of working prototype	s	
CA/AIS NAV - T1H: MIGRATION OF CODE BASE TO ERDC GITHUB (VERSIONED)	19-Apr-24	19-Apr-24	500958	RD280 /	Prototype Completion of working prototype	s	
CA/COASTSAT - TASK 11. DISTRICT ROLLOUT AND TRAINING	16-Nov-23	16-Nov-23	500958	RD250 /	Product Delivery Delivery date to customer	(for non-	documenta
CA/FLOC - TASK 1A FOR THE II. JOURNAL ARTICLE	19-Apr-24	19-Apr-24	500958	RD180 /	Complete Draft Document Delivery date for	r review o	of draft repo
CA/FUNWAVE DEV - CODE DEVELOPMENT AND BETA TESTING OF NEW DEEPWATER WAY	19-Apr-24	19-Apr-24	500958	RD210 /	Data Analysis Completion of Data Analysis	5	
CA/FUNWAVE GUI - MODEL DATA ANALYSIS OF COASTAL STRUCTURE MATRIX	19-Apr-24	19-Apr-24	500958	RD210 /	Data Analysis Completion of Data Analysis	;	
CA/GENCADE GUI - TR DRAFT OF MONTE-CARLO	19-Apr-24	19-Apr-24	500958	RD180 /	Complete Draft Document Delivery date for	r review o	of draft repo
CA/3D GIS - TASK 1. DEVELOP AND EVALUATE NEW TOOLS TO AUTOMATE THE EXTRACTION	19-Apr-24	19-Apr-24	500958	RD110 /	Alpha Testing		
ORISE: 7600A-2022-ERDC-1514 - RESEARCH OPPORTUNITY FOR DEV AND APPL OF GIS TO	30-Sep-24		500958	RD190 /	Contract Award Date for awarding contract		
CA/SANDSNAP DEVELOPMENT - TASK 4: SANDSNAP OUTREACH	19-Apr-24	19-Apr-24	500958	RD130 /	Deployment/Training		
ORISE: 7600A-2022-ERDC-1514 - THIS RESEARCH OPPORTUNITY WILL WORK ON A PROJEC	30-Sep-24		500958	RD190 /	Contract Award Date for awarding contract		
CA/GUIDANCE ON LIFECYCLE - TR DRAFT OF CALCESIEU ANALYSIS AND MODELING	31-Dec-23	31-Dec-23	500958	RD180 /	Complete Draft Document Delivery date for	r review o	of draft repo
IPR	24-Apr-24	24-Apr-24	516508	RD149 /	In Process Review (IPR)	81	
FY24 RD WORKPLAN	12-Apr-24	12-Apr-24	516508	RD240 /	PMP Development Completion and appr		
CIRP TECH TRANSFER ACTIVITIES	30-Sep-24		516508	RD149 /	In Process Review (IPR)		
MULTI MENTOR-MENTEE	30-Sep-24		516508	RD280 /	Prototype Completion of working prototy		
FY24 PMB MILESTONE	29-Mar-24	29-Mar-24	516508	RD240 /	PMP Development Completion and appr		υ
CNPM-CSAT-PBUD #1 - WEDACONF	26-Jun-24	26-Jun-24	516508		Deployment/Training		
CNPM-CSAT-PBUD #3 - NCMPDATAJUPYTERNOTEBOOK	30-Sep-24		516508		Product Delivery Delivery date to custom	Color L	regenu
CNPM-CSAT-PBUD #2 - CODEUPDATEDQM	30-Jun-24				Product Delivery Delivery date to custom	0	PROMIS
CNPM-CSAT-P BUD #6 - TRAININGWORKSHOP	29-Nov-24		516508		Workshop Date for completion of works	€	FRUMIS
	23 1404 24		510500		workshop bate for compretion of works		<b>D</b> .



### **INTRODUCING MODERN WORK...**

"Deadlines, Suspense, Milestone, Drop Dead, Checkpoints"

"The beatings will continue until morale improves"

What is your Why? What are the things that matter to us?

# HUDSON, FLORIDA



### **THE COUNTERBALANCE**

What we do at ERDC matters.

The people we work with deserve respect.

Care about the language and means by which we connect.

For the IPR, we are looking to build *Trust* and *Honesty* with each other.

### **THE MACHINERY OF ERDC**

The public demands that the engineering by USACE be accountable, transparent, and project funded; not organization funded.

Tactical v. Strategic CW RDTE

The reciprocal relationship between Applied R&D and the field created RARG, SONs, and PDTs.

### THE MACHINERY OF ERDC, CONT.

Why solicit proposals?

Our will to make things fair, easier, faster, smarter in proposal process.

The ratchet effect and over-optimization has led to intensive tracking via RPM.

# WHAT DOES THIS ALL TRANSLATE TO?

#### The Dark Side

The long list of activities and milestones we are perpetually behind on, and it always grows. It feels like our work is exposed out of context; everyone may judge our contribution and worth. Staying late on a weeknight to finish a slide deck (!), restart that buggy code 10 times, or get to those two email requests you didn't have time for last week but just remembered.

None of these things feel prudent or necessary.

#### **The Bright Side**

We learn incredibly interesting pieces of the puzzle we are working at; we help get colleagues get unstuck; we share joy in milestones and meeting the goals of our research values; we push ourselves to get science written and shared publicly; and our work is applied and useful to others.

#### BREATHE

## WHY IPR

Check in with how we feel during prep, today, and then after the IPR ends.

You are moving forward. You are constantly learning!

You get to work with great people who love this work just like you.

#### **LET'S IPR!**