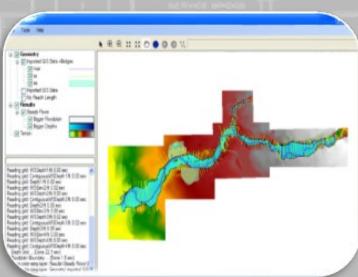
USACE LIAISON UPDATE

Kevin Knight

Economist USACE, Institute for Water Resources

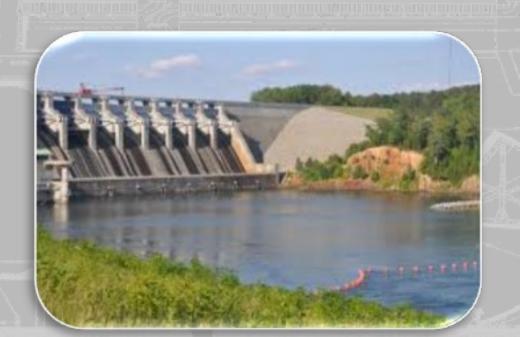
6 April 2022













Directorate of Civil Works





Deputy Commanding General, Civil and Emergency Operations

MG William Graham (3L94) 761-0099 (CECW-ZA)



Director of Civil Works

Mr. Alvin Lee (3L92) 761-0100 (CECW-ZB)



LTC Rachel Honderd (3M93) 761-0101 (CECW-ZC)



Mr. Thomas Smith Chief (3E92) 761-1983

Operations and Regulatory Division (CECW-CO)

Great Lakes and Ohio River Div. RIT (CECW-LRD)

North Atlantic Div. RIT



Mr. Eric BushChief (3G92)
761-0115

Planning and Policy Division (CECW-P)

Mississippi Valley Div.
RIT
(CFCW-MVD)

Southwestern Div. RIT (CECW-SWD)



Mr. Stephen Hill Chief (3B92) 761-4714

Office of Homeland Security (CECW-HS)

Director of Contingency Operations

Northwestern Div. & Pacific Ocean Div. RIT (CECW-NWD/POD)



Mr. Pete Perez Chief (3H92) 761-8826

Engineering and Construction Division (CECW-EC)

South Atlantic Div. RIT (CECW-SAD)

South Pacific Div. RIT (CECW-SPD)



Mr. Wesley Coleman Interim Chief (3I92) 761-4100

Programs Integration Division (CECW-I)

Program & Project Management CoP



Dr. Joe Manous, P.E.
Director
(703) 428-7074

Institute for Water Resources (CEIWR)





FY2023 PRESIDENT'S BUDGET



USACE held press conference to release details of President Biden's Fiscal 2023 Budget for the Army's Civil Works program on Monday, 28 March. The press conference was jointly conducted from locations at the **Port of** Long Beach, Long Beach, California, and the Port of Baltimore, Baltimore, Maryland.

Mr. Michael L. Connor, Assistant Secretary of the Army (Civil Works), and Maj. Gen. William H. "Butch" Graham, USACE Deputy Commanding General for Civil and Emergency Operations, addressed the Budget from the Port of Long Beach.

Lt. Gen. Scott A. Spellmon, USACE Commanding General, Mr. Jaime A. Pinkham, Principal Deputy Assistant Secretary of the Army for Civil Works, Ms. Stacey E. Brown, Deputy Assistant Secretary of the Army (Management and Budget) in the Office of the ASA(CW), and Mr. Wesley E. Coleman, acting Chief of the USACE

Civil Works Programs Integration Division, was at the Port of Baltimore.







FISCAL YEAR 2023

U.S. Army Corps of Engineers

Budget of the

Transformational Investments for the U.S. Army Corps of Engineers Civil **Works Program**

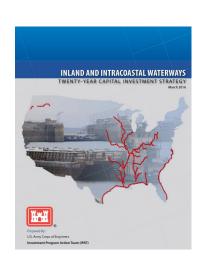


INLAND WATERWAYS USERS BOARD



- Sec Def approved recommendations for new Board membership and chairman, vice chairman effective 31 Jan 22
- Regular biennial Charter renewal for Users Board filed 19 Jan 22
- Next Inland Waterways Users Board meeting to be held in New Orleans F2F on 19-20 Apr22, with a tour of IHNC Lock and Bayou Sorrel Lock
- The 33rd Users Board Annual Report for 2020 was transmitted to Congress and Army on 5 February 2021
- Former ASA(CW) RD James transmitted the Inland & Intracoastal Waterways CIS report for 2020 on 4 January 2021. USACE updating projects/data from 2020 Capital Investment Strategy (CIS) considering recent funding allocations.











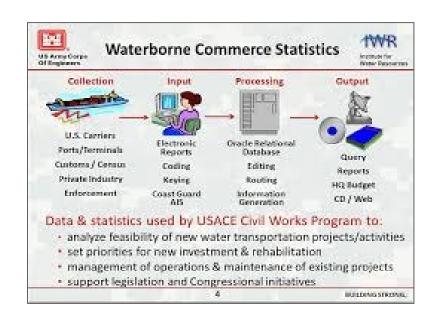


WATERBORNE COMMERCE STATISTICS ACTIVITIES



- Data System Modernization: Ongoing; Delayed due to lack of funding.
- Expectations: Pursuing opportunities to improve data interoperability and accessibility
- Growing Requirements: Cyber security requirements; Data dissemination and availability; data and system upkeep and maintenance.









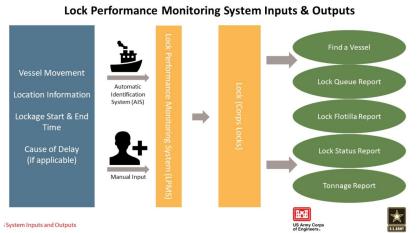


DREDGING DATA AND LOCK PERFORMANCE MONITORING SYSTEM



Planned Milestones and Deliverables for Present year:

- DIS 2.0 cloud deployment April 2022
- LPMS and NTNI cloud deployment April 2022
- DIS and LPMS AI/ML prototypes to be delivered by April 2022
- Deployment of LPMS 2.0 July 2022
- Incorporation of S-124, the National Waterway Network, and the USCG/CMTS Waterway Harmonization Project into NTNI
- Further automation of recurring reports and publications
- System integration and exploration of Machine Learning and AI which enables systems to automatically feed data updates and more advanced uses (modeling, forecasting, identify data quality for new uses)













NOTICE TO NAVIGATION INTERESTS

of Engineers

CT DATE: 03/29/202
RICT ENGINER POC: Christoph

.10 9TH AVE SOUTH, ROOM A405 Cheatham Lo NASHVILLE TN 37203-3852 Master HTTP://WWW.LRN.USACE.ARMY.MIL/ 615-792-4349 LOCAL NUMBER: 22-1
WATERWAY: CUMBERLAND RIVE
EFFECTIVE: 05/16/2022 10:04 thru 08/05/202

10:04 (

Cheatham Lock 2022 Lock Closure Schedule
There will be no restrictions during the temporary openings

Cheatham Lock 2022 Lock Closure Schedul

There will be no restrictions during the temporary openings

Cheatham Lock at Cumberland River Mile 148.7 will be closed to navigation beginning at 0600 16 May 2022 and continuing through 05 August 2022 due to repairs on upper gates and culvert valves. There will be temporary openings to allow navigation passage during the listed phases posted below. During these temporary openings there will not be any restriction.

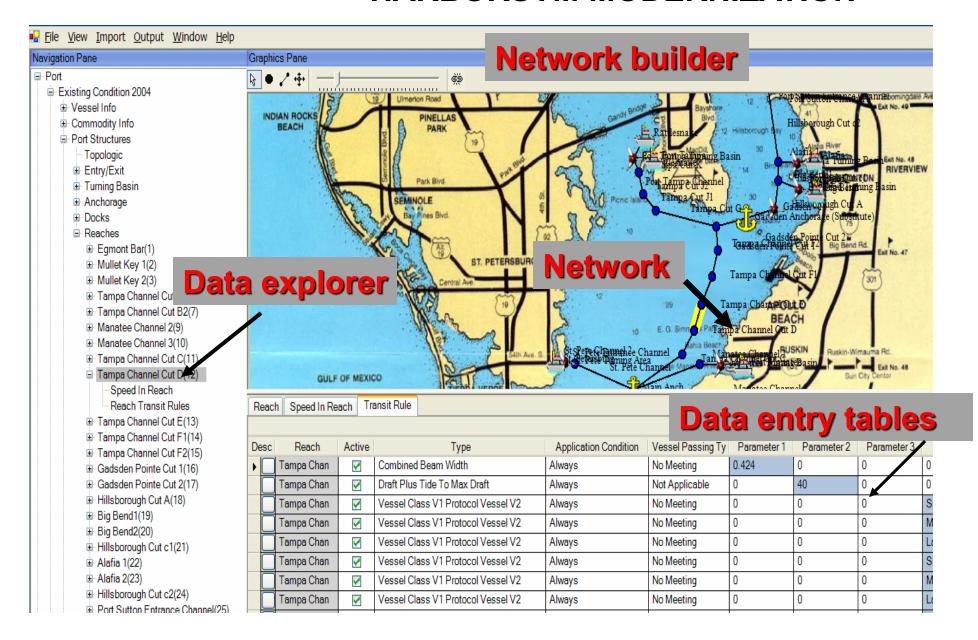






HARBORSYM MODERNIZATION









VESSEL EMISSION MODEL



Operational Phase	Emissions Control Area	Engine Type	Air Pollutant Emissions (kg)										
			со	CO2	NOx	SOx	CH4	NH3	ROG	PM10	PM2.5	BC	02
At Sea	Outside ECA	Main	1,262.26	567,101.90	13,171.40	13,445.80	73.17	2.74	631.13	1,372.02	1,335.43	8.39	1,596,454.33
		Auxiliary	149.61	98,200.51	1,958.57	2,113.62	122.41	0.41	62.57	204.02	198.58	0.77	200,501.09
	In ECA	Main	1,262.26	567,101.90	13,171.40	19.21	73.17	2.74	631.13	343.01	333.86	2.10	1,596,454.33
		Auxiliary	160.02	105,029.03	364.24	3.23	130.92	0.44	66.92	54.55	53.10	0.17	211,986.79
	Subtotal		2,834.15	1,337,433.33	28,665.60	15,581.86	399.68	6.33	1,391.74	1,973.59	1,920.97	11.43	3,605,396.54
Maneuvering with Thrusters	Outside ECA	Main	157.87	26,173.75	747.70	912.26	1.32	0.05	147.61	117.03	113.91	5.36	402,715.42
		Auxiliary	58.72	38,542.11	768.71	829.56	48.04	0.16	24.56	80.07	77.94	0.27	78,072.53
	In ECA	Main	157.87	26,173.75	747.70	1.32	1.32	0.05	147.61	29.26	28.48	1.34	402,715.42
		Auxiliary	59.21	38,863.05	134.78	1.19	48.44	0.16	24.76	20.19	19.65	0.07	78,613.24
	Subtotal		433.66	129,752.67	2,398.88	1,744.34	99.12	0.42	344.55	246.54	239.97	7.03	962,116.61
Maneuvering without Thrusters	Outside ECA	Main	157.87	26,173.75	747.70	912.26	1.32	0.05	147.61	117.03	113.91	5.36	402,715.42
		Auxiliary	37.21	24,426.55	487.18	525.75	30.45	0.10	15.56	50.75	49.39	0.19	49,918.22
	In ECA	Main	157.87	26,173.75	747.70	1.32	1.32	0.05	147.61	29.26	28.48	1.34	402,715.42
		Auxiliary	37.54	24,641.75	85.46	0.76	30.72	0.10	15.70	12.80	12.46	0.05	50,278.87
		Subtotal	390.49	101,415.81	2,068.03	1,440.08	63.80	0.30	326.49	209.83	204.23	6.94	905,627.93
At Anchor / In Port	Outside ECA	Main	+	-	-	7.5	-			+	-	-	-
		Auxiliary	26.10	17,132.65	341.70	368.76	21.36	0.07	10.92	35.59	34.64	0.19	35,930.50
	In ECA	Main			-	-				3		1	
		Auxiliary	26.29	17,254.69	59.84	0.53	21.51	0.07	10.99	8.96	8.72	0.05	36,131.74
	Subtotal		52.39	34,387.34	401.54	369.29	42.87	0.14	21.91	44.56	43.37	0.23	72,062.23
Loading / Discharging Cargo	Outside ECA	Main	_		-	-	-	-	-	-	-	2	
		Auxiliary	26.10	17,132.65	341.70	368.76	21.36	0.07	10.92	35.59	34.64	0.19	35,930.50
	In ECA	Main			-		3			=			
		Auxiliary	26.29	17,254.69	59.84	0.53	21.51	0.07	10.99	8.96	8.72	0.05	36,131.74
	Subtotal		52.39	34,387.34	401.54	369.29	42.87	0.14	21.91	44.56	43.37	0.23	72,062.23
TOTAL EMISSIONS			3,763.08	1,637,376.49	33,935.60	19,504.85	648.33	7.34	2,106.59	2,519.08	2,451.90	25.86	5,617,265.54





IMPLEMENTATION OF ENVIRONMENTAL JUSTICE AND THE JUSTICE 40 INITIATIVE



Implementation of Environmental Justice and the Justice40 Initiative ASA(CW) Memo – 15 MAR 2022

ACTION PLAN - DRAFT 16 MAR 2022

BLUF: "USACE Civil Works will focus environmental justice activities into three broad areas:

- 1. Improving outreach and access to USACE Civil Works information and resources
- 2. Improving access to USACE Civil Works technical service programs (e.g., Planning Assistance to States and Floodplain Management Services programs) and maximizing the reach of Civil Works projects to benefit the disadvantaged communities, in particular as it relates to climate resiliency
- 3. Ensuring any updates to USACE Civil Works policies and guidance will not result in a disproportionate impact on disadvantaged communities."

METRICS: For purposes of implementation of the Civil Works Program to assist the Administration in the Justice40 Initiative goals, USACE will use **investments** as the metric to measure benefits, essentially providing that 40% of USACE investments in climate and critical clean water and waste infrastructure must benefit disadvantaged communities. USACE will strive to achieve the 40% goal under Justice40 Initiative for specific programs such as Planning Assistance to States, Floodplain Management Services, and the Tribal Partnership Program, as well as in a more general sense for areas such as construction investments.





IMPLEMENTATION OF ENVIRONMENTAL JUSTICE AND THE JUSTICE 40 INITIATIVE



Tackling the Climate Crisis at Home and Abroad, President Biden directed the Council on Environmental Quality (CEQ) to create a Climate and Economic Justice Screening Tool. The purpose of the tool is to help Federal agencies identify disadvantaged communities that are marginalized, underserved, and overburdened by pollution. The current version of the tool provides socioeconomic, environmental, and climate information to inform decisions that may affect these communities. The tool identifies disadvantaged communities through publicly-available, nationally-consistent datasets.

The current version of the tool is in a public beta form and will be updated based on feedback and research.

The Justice 40 Initiative

The tool will provide important information for the Justice40 Initiative. The goal of the Justice40 Initiative is to provide 40 percent of the overall benefits of certain Federal investments in seven key areas to disadvantaged communities. These seven key areas are: climate change, clean energy and energy efficiency, clean transit, affordable and sustainable housing, training and workforce development, the remediation and reduction of legacy pollution, and the development of critical clean water infrastructure. Read more about the Justice40 Initiative in President Biden's Executive Order 14008 on Tackling the Climate Crisis at Home and Abroad.

74,135 census tracks categorized by population, education, pollution, hazard risk, traffic and other metrics





DISADVANTAGED COMMUNITIES - METRICS



Climate Change	Clean Energy & Energy Efficiency	Clean Transit	Affordable & Sustainable Housing		
Reduction & Remediation of Legacy Pollution	Critical Clean Water & Waste Infrastructure	Health Burdens	Training and Workforce Development		
Low Income	Higher Education Enrollment Rate	Expected Agricultural Loss Rate	Low Life Expectancy		
Expected Building Loss Rate	Energy Burden	PM 2.5 in the Air	Diesel Particulate Matter Exposure		
Traffic Proximity and Volume	Housing Cost Burden	Lead Paint	Median Home Value		
Proximity to Hazardous Waste Facilities	Proximity to National Priorities List (NPL) Sites	Wastewater Discharge	Asthma		
Diabetes	Low Median Income	Linguistic Isolation Unemployment	Poverty/High School Degree Attainment Rate		





ONGOING NAVIGATION CHALLENGES



- Forecasting sailing drafts since the number of container slots, design draft, the weight of the cargo, and other factors vary significantly by port and trade route
- Quantifying benefits for Cruise Ships (per WRDA 1996, benefits to commercial navigation are claimable as several projects in Florida are reemerging)
- Potential Research: What are the strongest predictors of project benefits (Deepened/Widened channels? Landside Development? Tax/Financial Incentives? Population & Economic Trends?)









QUESTIONS?



Kevin Knight
Institute for Water Resources
US Army Corps of Engineers
7701 Telegraph Road, Casey Building
Alexandria, VA 22315
(703) 428-7250
Kevin.P.Knight@usace.army.mil



