

July 14, 2021 2:00 PM from Justin Wilkens to everyone:
Justin Wilkens, ERDC-EL, Identify ways to provide support to BU projects.

July 14, 2021 2:01 PM from Laurel Reichold to everyone:
Laurel Reichold, SAD RSM Center of Expertise., continued knowledge sharing and technical exchange, and ways to assist implementation of more BU projects

July 14, 2021 2:01 PM from Brian Mcfall to everyone:
Brian McFall, ERDC-CHL, Ideas to improve ERDC-District collaborations.

July 14, 2021 2:01 PM from Amanda Tritinger to everyone:
Amanda Tritinger, ERDC - CHL : Help build connections throughout USACE to create teams that will move the BU practice outward and upward!

July 14, 2021 2:01 PM from Margaret Kurth to everyone:
Margaret Kurth, ERDC-EL, understand why there is a gap between supply and demand.

July 14, 2021 2:01 PM from Kelsey Fall to everyone:
Kelsey Fall, ERDC CHL, Interested to meet some future district partners :)

July 14, 2021 2:02 PM from Michael Ritz to everyone:
Michael Ritz, ECH SWG, I am currently working on a few projects that BU aspects and would like to get a better understanding of BU methods and applications.

July 14, 2021 2:02 PM from Amy Yarnall to everyone:
Amy Yarnall, ERDC-EL ctr, A primer on USACE BU projects and future directions

July 14, 2021 2:02 PM from JASE OUSLEY to everyone:
Jase Ousley, HQUSACE, Learn from you all how we can remove obstacles to BU at the enterprise level.

July 14, 2021 2:02 PM from Brooke Stevens to everyone:
Brooke Stevens - ERDC - Environmental Lab - ways to help communicate BU projects to stakeholders

July 14, 2021 2:02 PM from Katie Brutsché to everyone:
Katie Brutsche, Acting SAS Nav Chief (permanently ERDC RSM PM and Nav ATD), collaborations on how to move BU forward

July 14, 2021 2:02 PM from Abigail Eilar to everyone:
Abigail Eilar, USACE CHL/EL ORISE Fellow, Want to more thoroughly understand BU and current projects. Further understand role of BU in restoration efforts and best practices.

July 14, 2021 2:02 PM from Katharine Groth to everyone:
Kate Groth , NWP RSM Program Manager

July 14, 2021 2:02 PM from Danielle Szimanski to everyone:
Danielle Szimanski, NAB-OP, continued shared knowledge and insight into BU projects (as a PM and EWN-Coastal Practice Lead)

July 14, 2021 2:02 PM from Alison Anderson to everyone:
Alison Anderson, MVS-Planning, Better understand BU methods and applications

July 14, 2021 2:02 PM from chuck Theiling to everyone:
Chuck Theiling ERDC-EL, Want to promote adaptive management on restoration projects and commercial opportunities.

July 14, 2021 2:02 PM from Heather Schlosser to everyone:
Heather Schlosser, SPD (Navigation and Coastal Program Manager): Learn about the BU efforts to see where they may apply within SPD.

July 14, 2021 2:02 PM from Dave Crane to everyone:
Dave Crane - Environmental Resources Specialist out of the Omaha District. Also the recently selected biologist Engineering with Nature River Practice Lead. Looking to learn more about this important coastal practice.

July 14, 2021 2:03 PM from Breann Popkin to everyone:
Bre Popkin, MVR-Operations, hear lessons learned from other Districts and find opportunities to collaborate and implement BU

July 14, 2021 2:03 PM from Jacob Berkowitz to everyone:
Jacob Berkowitz - ERDC-EL - Soil nerd interested in developing comprehensive, cross-disciplinary assessments of BU projects.

July 14, 2021 2:03 PM from James Lewis to everyone:
Jim Lewis, MVD Mississippi River Science and Technology Office. I'm looking forward to learning more about the background/guidelines of BU and current status of applications.

July 14, 2021 2:03 PM from Jodi and Maya to everyone:
Jodi Swaenepoel and Maya McHugh - ERDC CHL - Summer Research Interns

July 14, 2021 2:03 PM from Jessica Podoski to everyone:
Jessica Podoski, Honolulu District, O&M Technical Manager, Learn from others on BU opportunities that may work in POH

July 14, 2021 2:03 PM from Doug Krafft to everyone:
Doug Krafft - ERDC - CHL listening and learning

July 14, 2021 2:03 PM from Todd Bridges to everyone:
Todd Bridges. Happy to be here. I have the same goal as yesterday: to not be bored. :)

July 14, 2021 2:04 PM from Catie Dillon to everyone:
Catie Dillon, Honolulu District, Broader look at BU applications within USACE.

July 14, 2021 2:04 PM from Brook Herman to everyone:
Brook Herman - ERDC-EL. Ways to overcome barriers to implementing BU projects.

July 14, 2021 2:04 PM from Monica Chasten to everyone:
Monica Chasten, Project Manager , RSM/EWN lead and Coastal Engineer in Philly District. Actively looking for BU opportunities for coastal nav channels in NJ and DE

July 14, 2021 2:04 PM from Clay Mccoy to everyone:
Clay McCoy, SAD RSM RCX, looking for good ideas to implement

July 14, 2021 2:04 PM from David Moore to everyone:
David Moore - ERDC - EL Toxicologist working in the areas of sediment management including beneficial use. Especially interested in beneficial use of chemically challenged material.

July 14, 2021 2:07 PM to Amanda Tritinger (privately):
Hey Amanda,

July 14, 2021 2:07 PM from Danielle Tarpley to everyone:
A Historic Look at USACE BU Case Studies - Jacob Berkowitz

July 14, 2021 2:07 PM to Amanda Tritinger (privately):
do you want me to leave cameras on until after these presentations?

July 14, 2021 2:07 PM from Amanda Tritinger (privately):
Le'ts wait until the guided discussion

July 14, 2021 2:08 PM from Amanda Tritinger (privately):
I watched the video yesterday, and it was nice to have the pm's video on while they did their briefings

July 14, 2021 2:08 PM from Elizabeth Godsey to everyone:
Elizabeth Godsey, Mobile District, Coastal and Regional Sediment Management Engineering Technical Lead and USACE Engineering with Nature Coastal Practice Lead. Share the successes as BU projects provide opportunities to get multidisciplinary and multisector teams working collaboratively and thinking out of the box. This can often lead to advancements in science and tools, which help teams find and move solutions forward that support economic and environmentally sustainable solutions.

July 14, 2021 2:08 PM from Amanda Tritinger (privately):
*the video recording

July 14, 2021 2:08 PM from Amanda Tritinger (privately):
Thank you.

July 14, 2021 2:09 PM from Todd Bridges to everyone:
The revelance of this project is encasulatd by Senator Capito's question to me: What about the O&M of nature-based projects?

July 14, 2021 2:10 PM from Amanda Tritinger (privately):
(So yes, leave on during presentations, thank! you)

July 14, 2021 2:11 PM to Amanda Tritinger (privately):
Got it, will do!

July 14, 2021 2:13 PM from Kelsey Fall to everyone:
The link to Jacob's paper
https://www.westerndredging.org/phocadownload/2021_Virtual/Proceedings/2021%20Dredging%20Summit%20and%20Expo%20Proceedings.pdf

July 14, 2021 2:16 PM from Monica Chasten to everyone:
In Philly, we have many examples of BU projects that were unintentionally constructed and now are some of the best habitats in the region. Some were created when we dug the channels initially and are great to show resource agencies how they have evolved over many years, but don't have a ton of data, just photos. We are now trying to use those lessons learned to intentionally construct placements now. Hopefully Jacob and team's effort can be expanded to capture some of these sites that were not designed and really ended up being some of our best examples of BU/EWN/RSM projects, unintentionally.

July 14, 2021 2:17 PM from Todd Bridges to everyone:
While we continue to expand quantitative knowledge about process and benefits, we need to complement that with an ability to simply and clearly describe the benefits and business / value case for BU. We won't make sufficient progress on BU if every BU project requires its own research project.

July 14, 2021 2:19 PM from Jacob Berkowitz to everyone:
Thanks everyone for joining. Feel free to enter questions in the chat as well!

July 14, 2021 2:19 PM from Todd Bridges to everyone:
We need more documenting of decades-old projects, whether they were "happy accidents" or intentional BU.

July 14, 2021 2:19 PM from Amanda Tritinger to everyone:
And please don't hesitate to keep on using the chat function to continue sharing your thoughts!!

July 14, 2021 2:20 PM from Danielle Tarpley to everyone:
Overview of BU Guidance - Jase Ousley

July 14, 2021 2:26 PM from Amanda Tritinger to everyone:
<https://rsm.usace.army.mil/budb/>

July 14, 2021 2:29 PM from Todd Bridges to everyone:
In addition to establishing a national target for BU, we should also strive for consistency across Districts. For example, we should have no dredging districts in the future that have zero (or near zero) BU.

July 14, 2021 2:31 PM from Todd Bridges to everyone:
Increased costs are a challenge. However, there are zero / near zero additional cost BU opportunities out there right now.

July 14, 2021 2:36 PM from Jessica Podoski to everyone:
Policy challenge - Section 204 and 1122 do not allow beneficial use on an existing USACE project that is maintained by non-fed sponsors... please address this in the new 125 policy.

July 14, 2021 2:37 PM from Todd Bridges to everyone:
Thank you Jacob and Jase!

July 14, 2021 2:38 PM from Danielle Tarpley to everyone:
Guided discussion: What is the status of BU throughout USACE?

July 14, 2021 2:39 PM from Danielle Tarpley to everyone:
Definitions & types of BU

July 14, 2021 2:39 PM from Katie Brutsché to everyone:
@Jessica: your point is well made and is definitely on the mind of HQ. I've been out of the loop a bit on this detail, but I know we've talked a bunch about the idea of somehow separating 204 from 1122

July 14, 2021 2:39 PM from Heather Schlosser to everyone:
This is my first time looking at the BU/RSM viewer - it is quite powerful! I think this will be a great tool to better target projects that we may be able to target for BU opportunities.

July 14, 2021 2:40 PM from Katie Brutsché to everyone:
@Heather: Great to hear that feedback! Please definitely encourage your districts to put their data in DIS and make sure they are accurate. That'll help to ensure we are displaying the right stuff!

July 14, 2021 2:42 PM from JASE OUSLEY to everyone:
@Jessica. Yes, what Katie said, and we are trying to make sure that we are not carrying obstacles forward in the 125 IG

July 14, 2021 2:43 PM from Jessica Podoski to everyone:
@Katie @Jase - THANK YOU!

July 14, 2021 2:43 PM from Todd Bridges to everyone:
What would be an example of "negative" use of dredged material? :)

July 14, 2021 2:43 PM from Breann Popkin to everyone:
beneficial use is anything that would maintain capacities of placement sites

July 14, 2021 2:43 PM from Coraggio Maglio to everyone:
Purposeful (intentional) placement to perform ecosystem goods and services

July 14, 2021 2:44 PM from Breann Popkin to everyone:
There is a big push from resource agencies on the Upper Mississippi to remove material from the system

July 14, 2021 2:46 PM from James Lewis to everyone:
One possible way to define beneficial use is anything that changes the view of sediment as the problem to viewing sediment as a resource that can be used to solve another problem.

July 14, 2021 2:47 PM from Elizabeth Godsey to everyone:
I like the word purposeful. We can find examples of BU dating back to the start of Navigation channel dredging, but these were not always intentional by the definitions.

July 14, 2021 2:47 PM from Jacob Berkowitz to everyone:
Def: ecological, engineering, and social benefits (including environmental justice and recreation) should be considered

July 14, 2021 2:47 PM from Todd Bridges to everyone:
I think there would be a lot of value in collecting "definitions" that have or are being used in different regions to raise awareness about practice and different perspectives. As I said yesterday, the goal is not to insist on one definition "to rule them all" but to use language to help us make progress on beneficial uses of sediment.

July 14, 2021 2:49 PM from Brooke Stevens to everyone:
@Todd - I agree, we need to capture the different viewpoints. I think we ultimately have the same goal, we are just using different words in phrases.

July 14, 2021 2:49 PM from Danielle Tarpley to everyone:
Obstacles & Levers for BU

July 14, 2021 2:49 PM from Margaret Kurth to everyone:
I proposed this yesterday for the reason Dr. Bridges is talking about now - that projects need material. BU = strategic coordination of dredge material supply and ecological engineering needs.

July 14, 2021 2:50 PM from Todd Bridges to everyone:
Move the onus from "why are you doing BU?" to "why aren't you doing BU?"

July 14, 2021 2:52 PM from Danielle Szimanski to everyone:
Levers can be collaboration with other agencies (fed or local level) for restoration needs to identify potential BU projects. Not only for immediate needs but what they are looking at in the future.

July 14, 2021 2:52 PM from Elizabeth Godsey to everyone:
Lack of good mentoring throughout USACE.

July 14, 2021 2:53 PM from Breann Popkin to everyone:
^ yes

July 14, 2021 2:53 PM from Danielle Szimanski to everyone:
As Jacob was saying earlier, quantifying the ecological benefits through research will aid in those policy and regional obstacles

July 14, 2021 2:53 PM from Alison Anderson to everyone:
technical obstacle: timing of dredging need and availability of BU site

July 14, 2021 2:53 PM from Todd Bridges to everyone:
Obstacle: different flavors of "risk aversion" within different organizations or functional areas within organizations.

July 14, 2021 2:53 PM from Jessica Podoski to everyone:
Technical Obstacle - mixture of beach quality sand with a small percentage of fine material, but too much to meet state "beach placement" standards

July 14, 2021 2:53 PM from Breann Popkin to everyone:
willingness for non-fed sponsor

July 14, 2021 2:53 PM from Jacob Berkowitz to everyone:
Obstacle - BU project perceived as more risky and more expensive; Lever - quantify the actual value delivered by BU projects

July 14, 2021 2:53 PM from David Moore to everyone:
Placing material on someone else's site (clean-up) because of perceived liabilities

July 14, 2021 2:53 PM from James Lewis to everyone:
Obstacles: cost, potential contaminants, commitment from cost-share partners

July 14, 2021 2:54 PM from Elizabeth Godsey to everyone:
Cultural Resource survey requirements and costs.

July 14, 2021 2:55 PM from Todd Bridges to everyone:
One "solution" for those with contaminant focus, would be to get them focused on the bigger problem "predator" chasing them, like natural hazards and climate change.

July 14, 2021 2:55 PM from Breann Popkin to everyone:
permitting via state regulating agencies

July 14, 2021 2:55 PM from Danielle Szimanski to everyone:
@Monica, yes, local resource agencies needing to understand the timeframe and not need to require 3+ years pre monitoring before allowing placement

July 14, 2021 2:56 PM from Elizabeth Godsey to everyone:
Smaller BU sites but too large of dredges. These often do not align.

July 14, 2021 2:57 PM from Danielle Szimanski to everyone:
O&M not having funding for that funding is an obstacle, but leverage is having those relationships to pull in for the monitoring

July 14, 2021 2:57 PM from Todd Bridges to everyone:
One potential solution for addressing timing issues is to expand flexibility through open-water temporary storage. MVN has been doing this on the Miss River for many years. But there are other contexts where this could work, including in bays (e.g.

SF Bay).

July 14, 2021 2:58 PM from Danielle Szimanski to everyone:
adding to the small scale projects, cost/cy because of down time, precision of placement, etc.

July 14, 2021 2:58 PM from Breann Popkin to everyone:
Curious how other Districts handle the potential liability if private groups remove material from a upland placement site

July 14, 2021 2:59 PM from Elizabeth Godsey to everyone:
Timelines to execute agreements that should be standard in USACE

July 14, 2021 3:00 PM from Todd Bridges to everyone:
Costs considered on a narrow, annual basis or costs considered over a longer timeframe or project lifecycle?

July 14, 2021 3:01 PM from Danielle Szimanski to everyone:
Leverage: bring in potential monitoring partners early and often as soon as there is an idea for BU, once relationships are established they can be used as a resource over and over again

July 14, 2021 3:02 PM from Danielle Szimanski to everyone:
bring those monitoring partners in for design aspects as well

July 14, 2021 3:02 PM from Heather Schlosser to everyone:
Levers - Demo or Pilot type projects can help with bringing Resource Agencies on board and they can play a larger part in the planning.

July 14, 2021 3:02 PM from David Moore to everyone:
Pilots to move the needle

July 14, 2021 3:03 PM from Elizabeth Godsey to everyone:
coordination that enables mutual understanding and shared risk.

July 14, 2021 3:04 PM from Todd Bridges to everyone:
We need to distinguish equipment, operational, contract, real estate, etc. costs verses the time needed to develop the path (including relationships and clearances) to do more BU. Every District needs a BU facilitator funded by the enterprise to lead and carry this.

July 14, 2021 3:05 PM from Elizabeth Godsey to everyone:
Align implementation with research.

July 14, 2021 3:05 PM from Danielle Szimanski to everyone:
Maryland just established an Innovative Reuse set of Guidelines in 2017 to remove sediment from the CDFs to allow for greater capacity

July 14, 2021 3:08 PM from Elizabeth Godsey to everyone:
Agree District BU managers and champions!

July 14, 2021 3:08 PM from Danielle Tarpley to everyone:
General opportunitites for expanding BU

July 14, 2021 3:08 PM from Todd Bridges to everyone:
I've long thought thar almost everything is more complicated when managing dredged material on land. Maybe others think differently?

July 14, 2021 3:08 PM from Todd Bridges to everyone:
*that

July 14, 2021 3:09 PM from Elizabeth Godsey to everyone:
Restore proposals going in to set funds aside to maintain all the restoration sites. Partnerships will align these sites with the source of material within our channels.

July 14, 2021 3:11 PM from Todd Bridges to everyone:
One language issue... Whenever possible I try to use the word "sediment" than "material". When you think about from the perspectives of others, "mateiral" could include car tires, dead cows, whatever.

July 14, 2021 3:12 PM from Elizabeth Godsey to everyone:
Opportunities are increasing with the awareness of the impacts of climate change.

July 14, 2021 3:14 PM from Heather Schlosser to everyone:
Audio issues....

July 14, 2021 3:14 PM from Alison Anderson to everyone:
We have leveraged our Biological Opinion program partners to identify the habitat types needed in the Miss. River. Still trying to get those habitats created through dredge placement.

July 14, 2021 3:15 PM from Heather Schlosser to everyone:
I think during the Planning Process, looking at BU opportunities is perhaps easier sometimes than trying to change a nav project that has been ongoing for decades.

July 14, 2021 3:15 PM from Jason Thies to everyone:
I am with the Galveston district now, but did a lot of coastal work on Lake Michigan for a private consulting firm a few years ago. There is a huge need for BU nourishment when lake levels are high, which happens to coincide with reduced dredge activity (higher water levels reduce need for nav projects). Also, as previusly mentioned there were issues surrounding regulated (contaminated) materials

July 14, 2021 3:17 PM from Jessica Podoski to everyone:
RSM program has enabled us to put some science behind our assertions of the value of BU - this has built us a lot of trust and value with our stakeholders for partnering when they do have to cost share

July 14, 2021 3:17 PM from Elizabeth Godsey to everyone:
Resource agency becoming our partners, developing the plans and having shared ownership.

July 14, 2021 3:17 PM from Brandon Boyd to everyone:
communication of the negative impact and outcome of non-BU action scenario

July 14, 2021 3:17 PM from Jacob Berkowitz to everyone:
Managing stakeholder expectations - these are natural systems that SHOULD change and evolve in response to environmental perturbations

July 14, 2021 3:19 PM from Danielle Tarpley to everyone:
Guided discussion: What is needed for successful partnering between USACE (ERDC+ Districts) and beyond (i.e. Federal Agencies, Academia, etc.)?

July 14, 2021 3:21 PM from Danielle Tarpley to everyone:
What are ingredients for successful partnering/collaboration between ERDC and Districts?

July 14, 2021 3:25 PM from James Lewis to everyone:
I think the key is consistency. There are so many challenges (funding cycles, workload cycles, attention to the problem cycles). Consistency in communication is the key. And if consistency in funding is possible, that is a huge help.

July 14, 2021 3:25 PM from Kelsey Fall to everyone:
early and constant communication between ERDC and district team members. Elizabeth, I agree we are a team, partners, all USACE. So I guess my question for district personnel on here, how is best to communicate?

July 14, 2021 3:28 PM from Heather Schlosser to everyone:
It is useful to have ERDC team members participate on regular PDT meetings.

July 14, 2021 3:29 PM from Danielle Tarpley to everyone:
How do we create synergy across USACE on BU?

July 14, 2021 3:31 PM from Todd Bridges to everyone:
How can we share successes and best practices most effectively across the USACE enterprise? What communication products or pathways or platforms for doing this?

July 14, 2021 3:31 PM from James Lewis to everyone:
In terms of communication, I think it works best on an individual level. If an ERDC expert can find a District person that does something they are very interested in, then I think individual check-ins (monthly, quarterly) would be best. Likewise, if a District person can find an ERDC expert doing something they are interested in. Often when things go up and across through leadership chains, the motivation/excitement/engagement in the topic of solving the problem gets lost.

July 14, 2021 3:32 PM from Todd Bridges to everyone:
What are the preferred ways for ERDC to communicate what we are doing to District team members?

July 14, 2021 3:32 PM from Jacob Berkowitz to everyone:
Leverage the RARG/SON process to test innovative solutions to add value to more

District projects

- July 14, 2021 3:32 PM from Breann Popkin to everyone:
RE has been an issue for MVR
- July 14, 2021 3:33 PM from Alison Anderson to everyone:
I'm hoping the IG will help push us through the status quo for dredge placement
- July 14, 2021 3:34 PM from Danielle Tarpley to everyone:
What are ingredients for successful partnering between USACE and others?
- July 14, 2021 3:35 PM from David Moore to everyone:
Don't forget industry as a potential partner there are alot of shared interest in Industry.
- July 14, 2021 3:44 PM from David Moore to everyone:
To clarify I'm not just talking about the dredging industry (think DOW, Dupont, etc.) they see DM as a resource and have therr own needs to manage materials.
- July 14, 2021 3:47 PM from chuck Theiling to everyone:
aggregate company partnerships
- July 14, 2021 3:50 PM from Breann Popkin to everyone:
mix
- July 14, 2021 3:50 PM from Alison Anderson to everyone:
In person workshops with agency partners
- July 14, 2021 3:51 PM from Jessica Podoski to everyone:
I like internal only for webinars - more open communications
- July 14, 2021 3:51 PM from Jessica Podoski to everyone:
but sometimes with parnters is good too
- July 14, 2021 3:51 PM from Jacob Berkowitz to everyone:
WEDA has webinars and they can be coordinated with publication of a journal article, etc
- July 14, 2021 3:52 PM from Justin Wilkens to everyone:
A benefit of getting ERDC involved in your BU project is to do this very thing through technical reports, journal articles, conference presentations, videos, etc.
- July 14, 2021 3:52 PM from Kelsey Fall to everyone:
Great minds @Brooke!
- July 14, 2021 3:54 PM from Kelsey Fall to everyone:
good point @Justin! Coferences/JA are where I meet most of my academic/industry contacts
- July 14, 2021 3:55 PM from Edward Brauer to everyone:

you can add the river engineering working group as another good way to share success.

July 14, 2021 3:55 PM from Justin Wilkens to everyone:
@Kelsey, yes, and the District has a product in hand they can continue to refer to

July 14, 2021 3:55 PM to Amanda Tritinger (privately):
ready for video?

July 14, 2021 3:55 PM from Monica Chasten to everyone:
We are working with our PAO specialist and GIS lead to develop a layer of BU projects linked to fact sheets.

July 14, 2021 3:57 PM from JASE OUSLEY to everyone:
I can always send things to the USACE-NAV email distribution. Things like meeting outcomes or requests to tap the brain trust across the nav community.

July 14, 2021 3:58 PM from Jacob Berkowitz to everyone:
THANKS everyone! Great job moderators and note takers/hosts

July 14, 2021 3:58 PM from James Lewis to everyone:
Thank you!

July 14, 2021 3:58 PM from Elizabeth Godsey to everyone:
Thank you!

July 14, 2021 3:59 PM from JASE OUSLEY to everyone:
Thanks everyone. keep up the great work!