## Innovative Reuse and Beneficial Use of Dredged Material Program

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- What are the general program components?
- What are the major program milestones?
- How has the Port of Baltimore advanced sediment reuse?













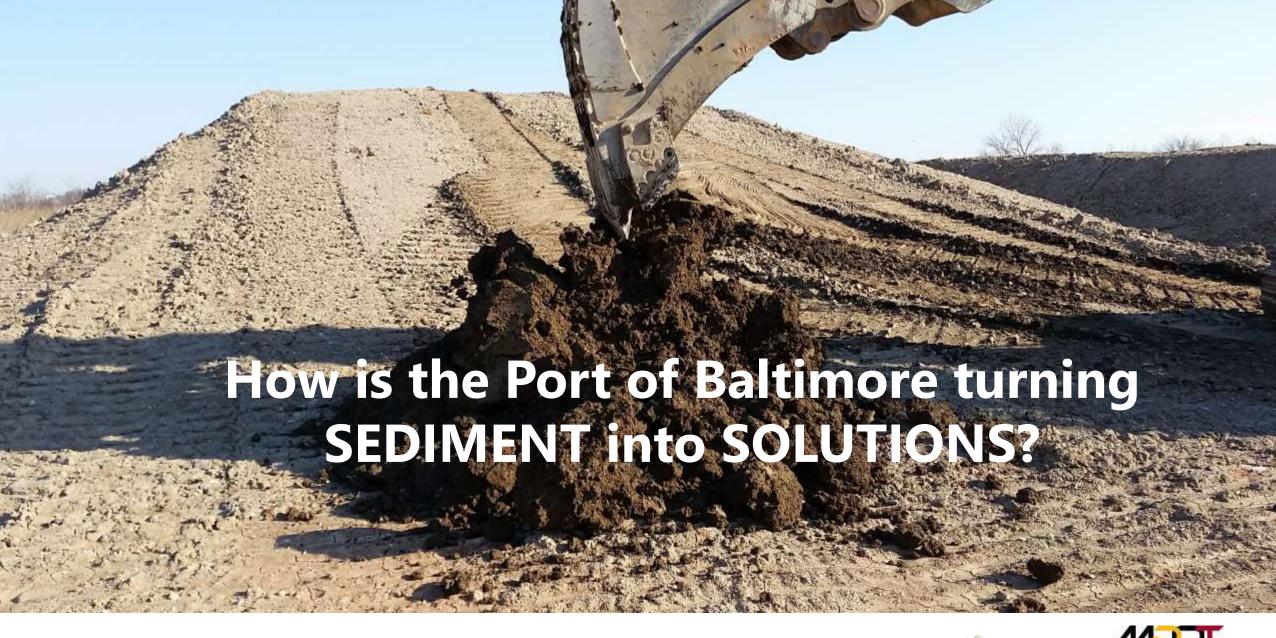


















## Innovative Reuse and Beneficial Use

#### **Request for Proposals**



- ✓ RFP was advertised on e-Maryland Marketplace Advantage in November 2019
- ✓ RFP for research and development for novel dredged material end-use applications
- ✓ Intent is to award multiple proposals each proposal is not to exceed \$300,000
- ✓ Maximum volume of dredged material to be allocated under this RFP is 5,000 cy per proposal







# **AWARD #1 – Belden-Eco Products, LLC**

Belden-Eco Products, LLC will combine dredged sediment with other materials, such as Maryland-sourced fly ash, into various mixtures to develop ceramic bricks and permeable pavers.

Final products could serve as a stormwater management solution for the Chesapeake Bay watershed.





AWARD #2 –
Northgate
Environmental
Management,
Inc. (MBE and
Small Business)



Northgate Environmental Management, Inc. will partner with others to develop concrete traffic barriers and modular shoreline protection structures using dredged sediments.

Final products could provide coastal stabilization and support for local transportation projects.







AWARD #3 –
FasTrak Express, Inc.
(Certified Small
Business)

Fastrak Express, Inc. will combine dewatered dredged material with mushroom compost and develop a preferred formulation to grow sod. Final product could be used in the development of re-engineered soil, thereby producing an agricultural commodity.



#### AWARD #4 – Harford Industrial Minerals, Inc.



Harford Industrial Minerals, Inc. will combine dredged sediment with other materials into various mix designs, and produce lightweight aggregate for uses such as structural concrete and various fill applications. Final product could serve as local and sustainable alternative to virgin aggregate material generated from quarries.











### **AWARD #5 – Susquehanna Concrete Products**

Suscon Products will combine dredged sediment with other materials into various concrete mix designs to develop general use concrete products. Final product could be used to manufacture general use concrete products such as retainer walls and low compression strength blocks.





## AWARD #6 – CSI Environmental, LLC

CSI Environmental, LLC will demonstrate the feasibility of using dredged material from Masonville DMCF to develop upland and shoreline berms using geotextile tubes at the BGE Spring Gardens facility. It is anticipated that the berms will enhance resiliency and provide ecological uplift at the site.











#### Benefits of R&D Solicitation

- ✓ Spurs research & development to expand the portfolio of dredged material enduse options.
- ✓ Creates a foundation for private sector collaboration on the potential future Tronox property
- ✓ Aids in future capacity recover projections from Harbor DMCF; innovative reuse is an emerging tool that has the potential to expand the Port's dredged material management capabilities.
- ✓ Furthers the State of Maryland's position as a national leader in the reuse of dredged material and contributes to Governor Hogan's Waste Reduction and Resource Recovery EO, which specifically calls out the reuse of dredged material.
- ✓ IR Program is closely integrated with MDE's regulatory policies, which serves as a model for other states.

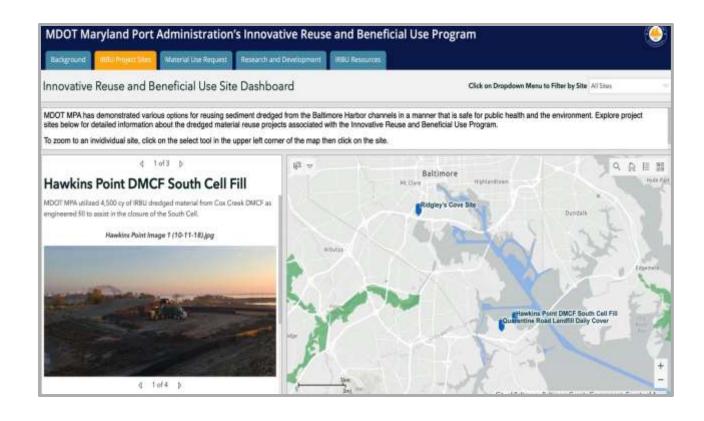












A one-stop-shop for information related to MDOT MPA's IRBU Program

- Request dredged material from MDOT MPA
- Informational videos
- Project examples
- Program resources

https://maryland-dmmp.com/future-solutions/







#### Thank you!

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