



Autonomous Dredging in USACE

Dredging Operations Environmental Research (DOER) Program

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Focus Area

Innovation in Sediment Management - Innovative Construction and Operations Technologies

Problem

The dredging industry has identified autonomous dredging as a near-term possibility. USACE has the opportunity to identify where this emerging technology fits within its current dredging practice.

Study Description

This effort will distill the opinions of USACE experts across a range of dredging related disciplines into a whitepaper outlining the opportunities and obstacles anticipated for USACE to implement autonomous dredging into its future dredging practice.

Products

A Special Report outlining the opportunity and obstacles for USACE to implement autonomous dredging. An automation plan for replacement sand bypass plant at NAP Indian River Inlet Sand Bypass Plant. An autonomous dredging concept of operation for USCG Station Cape Disappointment developed collaboratively with USCGA civil engineering senior cadets.

Summary

The dredging industry has identified autonomous dredging as a near-term possibility. USACE has the opportunity to identify where this emerging technology fits within its current dredging practice. This effort will distill the opinions of USACE experts across a range of dredging related disciplines into a whitepaper outlining the opportunities and obstacles anticipated for USACE to implement autonomous dredging into its future dredging practice.



Balancing operational and environmental initiatives and meeting complex challenges of dredging and dredged material placement in support of the navigation mission.





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Research Products

Product Type	Product Title



Balancing operational and environmental initiatives and meeting complex challenges of dredging and dredged material placement in support of the navigation mission.