

# TECHNOLOGICAL ADVANCES IN THE DREDGING INDUSTRY

HALF DAY SEMINAR – FREE EVENT

Thursday 5<sup>th</sup> October 2023 at 14.00hrs

INSTITUTION OF CIVIL ENGINEERS, GODFREY MITCHELL THEATRE, ONE GREAT GEORGE STREET, LONDON, SW1P 3AA

The event will also be streamed live online.



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Over the years, dredgers have become more productive as a result of improved design, increased power and size and the use of electronics. The growing innovation in dredging technology focuses more on optimising the dredging technology than developing new dredgers. The standardisation of dredging equipment and the advancement of monitoring and control systems have improved the dredging process to a great extent.

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Technological advances also include working with tidal processes to manage sediment budgets thereby supporting the natural evolution of habitats such as mudflats and saltmarsh which host important populations of waterbirds and other species.

More recently, we are seeing significant advances in the use of automation. An increasing number of newbuilt dredgers are being fitted with automated systems, which allow companies to streamline various work processes such as slurry pumping, dredge positioning and swing speed of cutter head. This technology facilitates more precise dredging, boost safety, fuel-saving capabilities, and reductions in administrative burden and project timelines - all of which reduce costs and improve project performance. This streamlining and fuel reduction can also directly lower carbon emissions, which will help these vessels meet IMO GHG reduction targets - mandatory by 2030 and 2050.

This seminar looks at how modern technological advances is allowing the dredging industry to meet the ever-increasing demands of the Maritime Sector.

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