

**FLEXTERM IN ACTION: TRANSFORMING PORT AND TERMINAL OPERATIONS
WORLDWIDE**

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ABSTRACT

FlexTerm, developed by Moffatt & Nichol, is a versatile digital-twin platform designed to simulate, emulate, and optimize port and terminal operations. Users can create detailed virtual models of container terminals, run simulations for both short-term and long-term scenarios in minutes, and integrate seamlessly with Terminal Operating Systems (TOS) for better decision-making, whether for conventional or automated terminals. FlexTerm has been deployed globally to enhance operational efficiency, reduce costs, and streamline terminal layouts and processes. It supports modeling across a wide range of logistics scenarios, including container handling, rail facilities, RoRo operations, bulk materials, offshore wind ports, and cruise terminals. This presentation will highlight FlexTerm's core capabilities, real-world applications, and key project experiences from around the world.