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Navigating A Crossroads

Finding avenues for growth in the face of
evolving priorities and budgetary pressures

By Tiffanie Reynolds

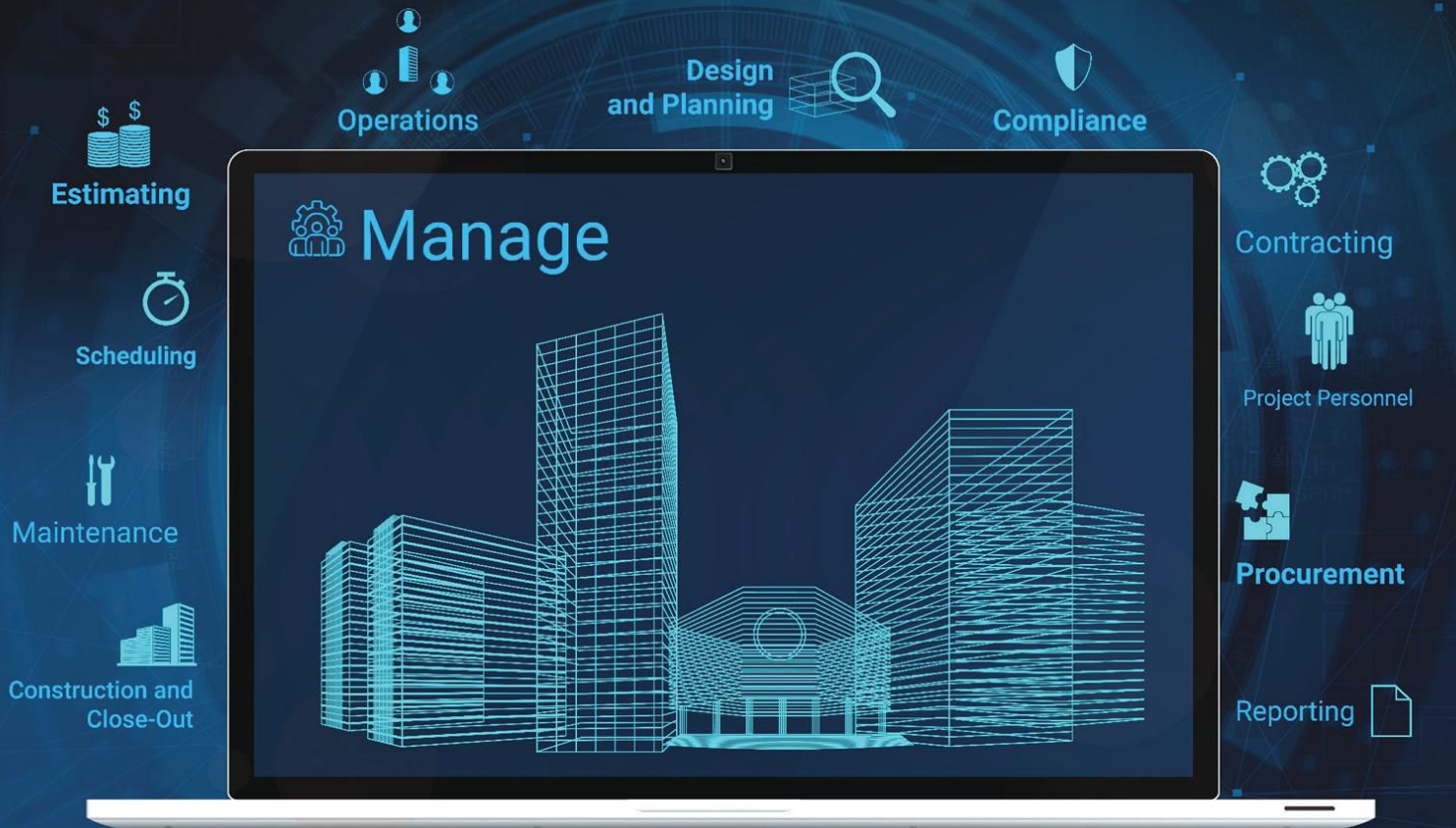
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AI and the DoD: A True Force Multiplier

By **Taylor Hwong**, Vice President and DOD Client Account Manager, Hill International, Inc.

As the U.S. Army Corps of Engineers (USACE) and other Dept. of Defense (DOD) agencies undertake programs and projects of ever-increasing complexity, new tools leveraging artificial intelligence (AI) can help facilitate smarter decision making, increase efficiency and better manage risk. These tools include:

Design and Planning: AI-enhanced Building Information Modeling (BIM) can optimize layouts, detect clashes and assess constructability with greater speed and accuracy than traditional BIM. AI can also provide design options and speed site selection using GIS and environmental inputs.

Estimating and Scheduling: Machine learning can identify likely delay patterns and use historical cost data and trends to generate more accurate estimates, protecting progress and increasing cost certainty.

Procurement and Contracting: Natural Language Process tools can assist project personnel in reviewing proposals and ranking vendors according to risk.

Compliance and Reporting: AI automates dashboards, tracks document changes and verifies compliance and funding sources. This improved accuracy helps to avoid claims while providing a single source of truth for information.

Construction and Close-Out: Progress tracking, QA/QC, materials and equipment management and testing and safety monitoring can all be augmented and improved with existing AI technologies.

Operations and Maintenance: Combining the Internet of Things with AI through embedded sensors gives owners a powerful tool to conduct preventative maintenance, reducing downtime and lifecycle costs. As AI continues to advance, more qualitative benefits will become available to USACE and DOD personnel. At Hill, we leverage AI to assist our clients in delivering some of the most complex programs and projects in the world. ♦

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Mission-Ready Safety Solutions for Federal and Military Infrastructure

With more than 30 years of experience and over 1 million projects completed, Valtir Rentals is a trusted partner in enhancing safety and security across complex work zones. Formerly known as Trinity Highway Rentals, Valtir rebranded in 2022 but continues its legacy of supporting federal, military and civil infrastructure projects with high-performance barrier and perimeter control solutions.

Valtir Rentals provides water-filled barricades, perimeter fencing and channelizing devices that meet the rigorous demands of federally funded construction, from base infrastructure upgrades to major transportation projects. When federal investment surged in passenger rail and transit expansions, Valtir was tapped to provide safe separation between active work zones and high-traffic pedestrian and commuter areas.

The Yodock® water-filled barricade system became the preferred solution to protect both workers and civilians in dense urban environments.

Their SiteGuide™ Longitudinal Channelizing Device offers ADA-compliant delineation for street closures, secure perimeters and controlled pedestrian access, meeting the accessibility and safety standards federal agencies require.

Valtir also plays a critical role in airport construction and maintenance at both civilian and military airfields. The Aerocade® Airport Barricade is specifically engineered to address the complex safety needs of airside and landside zones. Complemented by the Safe-Hit® Airport Marker for taxiways and Dura-Post® delineators for secure traffic flow, Valtir provides a comprehensive safety system for high-mobility environments.



Valtir Rentals is a leading provider of innovative job site safety products on infrastructure projects. Pictured above, Yodock barricades are plastic, water-filled Longitudinal Channelizing Devices (LCDs) are ideal for delineating construction work zones.

Whether supporting military installations, Dept. of Transportation projects, or civilian aviation facilities, Valtir Rentals delivers reliable, compliant solutions that enhance safety, protect personnel and ensure operational continuity. For more information, visit ValtirRentals.com. ♦

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