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Realizing Digital Modernization of Operational Platforms

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Abstract:

The DoD Digital Engineering Strategy envisioned a future where prototypes and testing are optimized in a virtual environment, and data is leveraged across a dynamic lifecycle. In support, the US Navy and Marine Corps Digital Systems Engineering Transformation Strategy astutely highlighted the need to design, deliver, and sustain platforms under restrictive budgets and aggressive deadlines. While it may seem the vision and challenges are at odds, that future is now. Join this presentation to learn how Altair Engineering is currently solving this conundrum. By merging physics-based modeling and data analytics across high-performance computing environments, complex environments such as Airborne RADAR electromagnetic field distortion caused by operational deformation can be predicted and optimized quickly and efficiently, while establishing a predictive digital thread across the system's lifecycle.