

Enterprise Digital Twins

Transforming Data Center Development & Operations Through Virtual Innovation

Why Digital Twins Change the Game



Speed

30-40% faster commissioning and fewer change orders



Cost

10-20% reduced construction and operational costs



Efficiency

20-30% energy savings with continuous AI optimization

Modern data centers face unprecedented complexity with AI workloads pushing rack densities from 17kW to over 80kW, demanding new approaches to thermal management and capacity planning. Digital twins address these challenges by providing stakeholders with comprehensive facility modeling that reveals optimization opportunities invisible to traditional monitoring systems.



“Digital Twins transform design intent into operational reality, bridging speed, cost, and accuracy.”

The transformation from traditional to digital twin methodology fundamentally changes how organizations approach data center development and operations. Unlike static planning approaches, digital twins provide dynamic, predictive insights enabling proactive decision-making and continuous optimization. This shift delivers quantifiable benefits that compound over time, creating sustainable competitive advantages.



Accelerated Time-to-Commission

From concept to operational facility in months, not years



Reduced Development Costs

Reduce expensive change orders and delays during construction



Enhanced Efficiency

Predictive monitoring reduces remote hands and improves uptime

Transform Your Data Center Operations

Early adopters achieve significant competitive advantages through improved efficiency, reduced costs, and enhanced agility

Learn more and read the full report here:

[Enterprise Digital Twins Transforming Modern Data Center Development and Operations](#)

In partnership with: