



Why the US Data Centre Boom Is Creating a Golden Era for Planning & Project Controls

AI Infrastructure • Delivery Complexity • Programme Controls

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KEY TAKEAWAYS

- US data centre demand could more than triple by 2030
- Hyperscaler capital expenditure may exceed \$1.1 trillion by 2027
- AI infrastructure is becoming a delivery challenge, not just a technology challenge
- Project controls capability is becoming strategically critical
- Labour, procurement and power constraints are increasing delivery risk

KEY INDUSTRY STATISTICS

241GW	\$1.1T	220,000+
US Data Centre Pipeline in 2025	Projected Hyperscaler Capex by 2027	GPUs at xAI Colossus Facility

THE AI RACE IS NOW AN INFRASTRUCTURE STORY

The AI race is no longer just a technology story.

It has become one of the largest infrastructure buildouts in modern history.

Across the United States, hyperscalers including Microsoft, Amazon, Google, Meta and Oracle are investing hundreds of billions of dollars into new data centres, AI campuses, power infrastructure and high-density compute facilities.

“The complexity of projects is increasing faster than the supply of experienced project controls professionals.”

THE SCALE OF THE OPPORTUNITY

Recent market analysis from McKinsey suggests global data centre capacity demand could more than triple by 2030.

CBRE reported that primary US data centre market supply increased by 36% year-on-year in 2025.

Morgan Stanley estimates combined hyperscaler capital expenditure could exceed \$1.1 trillion by 2027.

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AI INFRASTRUCTURE IS DRIVING A NEW CONSTRUCTION ECONOMY

AI firms are increasingly competing not only for talent and market share, but for physical infrastructure capacity, power access and accelerated project delivery.

xAI's Colossus facility in Memphis contains more than 220,000 Nvidia GPUs and over 300 megawatts of compute capacity.

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THE NEW REALITY: SCHEDULE CERTAINTY IS BECOMING A COMPETITIVE ADVANTAGE

Project controls now sits at the centre of delivery strategy.

Organisations capable of integrating procurement tracking, resource forecasting, schedule risk analysis and portfolio governance will be best positioned to deliver hyperscale programmes successfully.

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WHY DEMAND FOR PLANNING & CONTROLS PROFESSIONALS WILL CONTINUE TO GROW

AI adoption continues to accelerate.

Inference computing is driving regional data centre expansion.

Governments increasingly view digital infrastructure as strategically important.

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FINAL THOUGHTS

The AI revolution is often discussed through the lens of software, chips and large language models.

But the real story may actually be infrastructure.

The next decade will likely see unprecedented demand for professionals who can bring predictability, visibility and control to highly complex capital programmes.

“Infrastructure at this scale cannot succeed without exceptional execution.”

#ProjectControls #Planning #Scheduling #DataCentres #AIInfrastructure
#Construction