

COORDINATED TO WIN

Reducing Risk in Hyperscale AI/Data Center Construction



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Why Coordination Wins in Hyperscale



Hyperscale construction delays cost billions annually, with industry data showing that 65% of major project delays occur not during primary construction, but in the gaps between trades during safety handoffs, logistics coordination, and commissioning integration.

AI and cloud providers are pushing the limits of data center construction, demanding larger facilities, shorter timelines, and flawless performance from day one. The stakes are high: one delay can cost hundreds of thousands (or even millions) per day, and safety incidents can bring a site to a standstill.

The Truth?

Delays rarely stem from the primary trades alone. They happen in the gaps between safety, logistics, MEP

integration, and commissioning handoffs. When an OnPoint construction client experienced a significant employee injury, they realized immediate changes were necessary in OSHA compliance and safety systems. Without dedicated safety staff or thorough safety management systems, they faced the same coordination gaps that plague hyperscale construction projects.

This eBook reveals how embedded execution support transforms these vulnerable handoff points into coordinated advantages, backed by real-world examples and practical tools you can use immediately.



Executive Summary

What you'll gain from this eBook:

01

Four Critical Risk Categories that drain millions from hyperscale projects daily - and how to eliminate them

03

Assessment Tools + Implementation Guide including calculators, scorecards, and step-by-step deployment strategies

02

Proven Solutions that delivered 73% reduction in safety incidents and nearly \$1M in recovered walking-time productivity

04

Real Case Studies from complex industrial projects showing measurable ROI from embedded execution coordination

The Hidden Risks in Hyperscale Builds

Every day on a hyperscale AI/Cloud construction project is high stakes. When schedules slip or safety incidents occur, the costs are immediate and severe - not just in dollars, but in lost credibility with hyperscaler clients.

The Four Critical Risk Categories



01

Schedule Risk: Where Time Bleeds Money

Handoffs between trades and phases often fail under critical timelines. The most dangerous periods occur during MEP construction phases, commissioning startup windows, and final inspections where any missed detail can trigger re-work cycles.

02

Safety Risk: One Incident Stops Everything

One recordable incident can shut down operations across multiple contractors. Multi-contractor shutdowns trigger hundreds of thousands of dollars in lost productivity, delayed timelines, site-wide safety reviews, insurance impacts affect future project qualifications, and hyperscalers increasingly factor safety performance into future project awards.

03

Transportation and Site Logistics Inefficiencies

On massive hyperscale sites, workers can spend 15-30 minutes per day just walking between parking areas, material staging, and work locations. At typical trade labor rates of \$75/hour, this represents \$18.75-\$37.50 per worker daily in walking time costs. For a 200-worker project, this compounds to nearly \$1 million annually in lost productivity. This amounts to money spent on walking instead of productive work.

04

Readiness Gaps: The Final Mile Failures

REAL EXAMPLE



The final mile before turnover is the most dangerous phase for project health. Documentation gaps, system integration issues, and performance verification delays can derail projects at the finish line.

Coordination Transforms Results

A global renewable energy company entering the U.S. market needed assistance navigating safety standards and compliance regulations while manufacturing and installing wind turbines. The company faced four key challenges: U.S. workforce culture and union issues, translation of safety standards between countries, environmental impact concerns, and community concerns from property owners.

OnPoint's safety consultants bridged the cultural gap between U.S. and foreign workers while developing plans to address both property owner concerns and contractor needs. The result: successful project completion across 5 states over 10 years, with the company so satisfied with safety services that they expanded the partnership to manufacturing projects.

ⓘ Action Item

Conduct a coordination gap assessment on your current project. Map the handoff points between safety, logistics, transportation, and commissioning teams to identify where information silos and competing priorities create vulnerabilities that could impact your schedule and budget..

Quantifying The Impact

You can't manage what you don't measure. Our estimating tools help translate abstract risk into budget scenarios your leadership can evaluate and act upon.

The True Cost of Delays



For hyperscale clients, every day of delay represents significant lost revenue opportunity. While specific figures vary by project size, location, and client tier, industry estimates suggest substantial daily revenue impacts that can quickly escalate into hundreds of thousands of dollars per day for large facilities. Beyond direct costs, delays affect preferred vendor status, trigger penalty clauses, and damage reference project value for future work.

The True Cost of Safety Incidents

BASED ON RECENT INDUSTRY DATA

\$43k

Cost per medically consulted injury in 2023 was \$43,000, while the cost per death was \$1,460,000 according to the [National Safety Council](#)¹

BASED ON RECENT INDUSTRY DATA (CONTINUED)

\$35k

Average cost of one lost-time injury on a construction job site is \$35,000, though many injuries cost much more due to litigation, medical expenses potential increases in workers' compensation rates, and Experience Modification Rating (EMR) increases per the [Workplace Safety and Insurance Board](#)²

\$44k

The average cost for each worker based on all claims combined for accidents that occurred in 2021-2022 was \$44,179 according to [NCCI data](#)³

[OSHA studies](#)⁴ show indirect costs typically run 1.1 to 4.5 times direct costs, including multi-trade work stoppages, enhanced oversight requirements, and insurance impacts. The multiplier is based on a sliding scale.

Experience Modification Rating (EMR) Impact

Companies with poor safety records face significant financial

penalties through increased EMR ratings. The average EMR for construction companies is 1.0, but companies with high incident rates can see EMRs of 1.5 or higher, directly multiplying their workers' compensation premiums. For example, a company with a base workers' comp premium of \$100,000 and an EMR of 1.5 would pay \$150,000—an additional \$50,000 in penalties. Beyond insurance costs, many hyperscale projects require contractors to maintain EMRs below specific thresholds (typically 1.0) to qualify for bidding, making safety performance a competitive necessity.



Assessment Tools Available



Timeline Risk Estimator

Input project parameters to estimate delay costs across different scenarios based on size, complexity, and critical path dependencies.

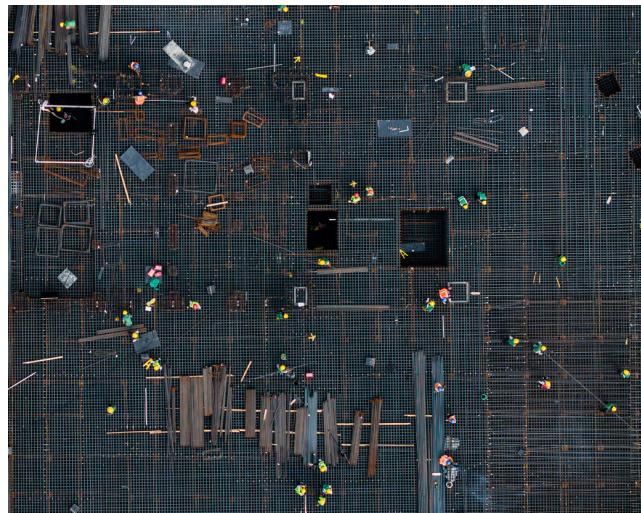
Incident Cost Calculator

NSC benchmarks adapted for hyperscale projects with direct cost estimates and indirect multipliers based on site complexity.

Commissioning Readiness Scorecard

Weighted assessment identifying turnover vulnerabilities across systems integration (30%), documentation completeness (25%), performance verification (25%), and operational handoff preparation (20%).

REAL EXAMPLE



Prevention Pays

A hydrogen production project with 195 employees across 2 locations achieved zero recordables on one project and only 1 recordable out of 120 employees on another. The embedded safety approach that integrated Process Safety Management protocols with workforce coordination eliminated typical incident costs of \$75K-\$500K per recordable while completing projects ahead of schedule.

ⓘ Action Item

Run the assessment tools on your last completed project to establish baseline risk levels, then apply the same analysis to your next project to identify the 2-3 highest-impact risk areas where proactive coordination investment will deliver the strongest ROI.

Why Embedded Execution Works

Traditional project management leaves coordination functions fragmented, creating dangerous blind spots. Embedded execution closes those gaps by integrating safety, logistics, transportation, and commissioning under one coordinated approach.

The Embedded Execution Model



APPROACH COMPARISON

Traditional Approach	Embedded Execution Approach
<ul style="list-style-type: none"> ⊗ Safety managed by individual trade contractors ⊗ Logistics handled by separate materials/supply teams 	<ul style="list-style-type: none"> ⊗ Commissioning treated as end-of-project activity ⊗ Limited cross-functional communication until problems arise
	<ul style="list-style-type: none"> ✓ Cross-trained specialists who understand interdependencies ✓ Real-time coordination adjustments based on field conditions

Core Benefits

Single Point of Accountability	Fewer Handoffs	Program-Level Consistency
<p>Instead of managing separate relationships with safety consultants, materials and logistics coordinators, and transportation teams, you get one integrated team that owns coordination between critical functions.</p>	<p>Each handoff between teams creates opportunities for miscommunication. Embedded execution reduces transition points by maintaining continuity across project phases.</p>	<p>For contractors managing multiple hyperscale projects, embedded execution provides standardized processes deployed consistently across different sites and markets.</p>

The Embedded Execution Model



The key differentiator is cross-trained professionals who understand how their specialty impacts other functions:

01

Safety leaders who understand MEP dependencies and adjust protocols proactively

02

Logistics experts who understand commissioning sequences and stage materials accordingly

03

Commissioning specialists who coordinate testing with safety protocols and logistics planning

REAL EXAMPLE

Integrated Success

An OnPoint client's transformation demonstrates integrated safety management power. After implementing comprehensive safety assessments and embedded safety leadership, they achieved a 73% reduction in OSHA recordable cases, 47% reduction in lost-time incidents, and 46% reduction in DART rates. The key was moving beyond reactive safety management to proactive, integrated coordination across all operational functions.



ⓘ Action Item

Evaluate your current project team structure. Identify whether you're managing separate relationships with safety consultants, logistics coordinators, and commissioning specialists--if so, assess how embedded execution could consolidate these functions under integrated coordination to eliminate handoff failures.

Applying The Toolkit

The OnPoint Hyperscale Construction Risk Assessment Toolkit is designed for immediate action. By inputting your project data, you'll estimate where you're most vulnerable and what that risk could represent financially.

The Embedded Execution Model



TOOLKIT IMPLEMENTATION

PHASE 01

Risk Assessment

- Gather historical delay incidents and causes from your last 3-5 hyperscale projects
- Collect safety incident records and associated costs
- Run Timeline Risk Estimator, Incident Cost Calculator, and Commissioning Readiness Scorecard
- Compare results with industry benchmarks to identify your top 3 risk categories

PHASE 02

Strategy Development

- Analyze which risks represent the highest cost, occur most frequently, and can be most effectively addressed
- Design embedded execution approach based on your highest-risk areas
- Calculate prevention investment ROI against potential delay/ incident costs

PHASE 03

Implementation Planning

- **High Schedule Risk**
Focus embedded resources on critical handoff phases with integrated planning
- **High Safety Risk**
Deploy cross-trained safety specialists with MEP coordination understanding
- **High Commissioning Risk**
Engage specialists during design/ installation, not just startup

Success Measurement

Track Four KPI's

01**Schedule Performance**

Days delayed vs.
baseline estimates

02**Safety Performance**

Incident rates and associated
costs sequences and stage
materials accordingly

03**Commissioning Efficiency**

Time from mechanical
completion to
system turnover

04**Client Satisfaction**

Formal feedback scores
and repeat project awards

REAL EXAMPLE

Assessment Drives Results

An OnPoint client discovered through comprehensive assessment that safety management gaps created both compliance risks and operational inefficiencies. By focusing embedded support on safety system development and cultural integration, they achieved dramatic safety improvements while gaining "immediate value" through enhanced organizational insights and regulatory inspection preparedness.



① Action Item

Download the toolkit this week and begin Phase 1 assessment on your current or upcoming project. Focus first on gathering historical data from your last 3-5 projects to establish baseline performance before designing your embedded execution strategy.

Your Next Step

Your hyperscale project will only get one shot at flawless turnover. The teams that succeed don't leave safety, materials and logistics, transportation efficiency, or commissioning readiness to chance. They measure, monitor, and manage them from day one with proven coordination strategies.

Immediate Action Plan

THIS WEEK

Download the complete toolkit and run your project numbers. Identify your top 3 vulnerability areas and calculate the potential ROI of proactive coordination investment.

NEXT 30 DAYS

Meet with your project leadership team to review assessment results. Develop your embedded execution strategy focused on your highest-risk areas and begin stakeholder conversations about coordination improvements.

NEXT 60 DAYS

Schedule a consultation with OnPoint's embedded execution specialists to review your assessment results and develop a customized coordination strategy. Our team will help you identify the optimal mix of safety, logistics, and commissioning support for your specific project requirements and risk profile.

NEXT 90 DAYS

Deploy embedded execution support on your next hyperscale project. Establish performance tracking systems and begin collecting baseline data for future comparison.

Your Competitive Advantage

“

It was amazing the insights OnPoint gained into our culture and management system in such a short period of time. **We gained immediate value.**”

Client, EVP & COO



The contractors winning the most hyperscale work aren't just the ones with the lowest bids, they're the ones with the most predictable delivery performance. Embedded execution support transforms project coordination from a reactive management challenge into a proactive competitive advantage.

Results Speak For Themselves

An OnPoint client achieved a 73% reduction in OSHA recordable cases. The renewable energy company successfully expanded across 5 states over 10 years. The hydrogen production projects completed ahead of schedule with zero recordables on complex industrial builds.

Ready to Get Started?

+ Risk Assessment Toolkit

Timeline Risk Estimator, Transportation Efficiency Calculator, Incident Cost Calculator, and Commissioning

[DOWNLOAD NOW →](#)

+ Vulnerability Assessment

Input your project data to identify your top 3 risk areas and calculate potential coordination ROI

[RUN NOW →](#)

+ Coordination Strategy Session

Work with our embedded execution specialists to design your integrated approach and implementation plan

[SCHEDULE NOW →](#)

Your partner in **faster, safer, zero-compromise hyperscale delivery**



OnPoint is a leading provider of embedded execution support for hyperscale AI & Cloud data center construction. We work alongside your general contractor and owner's team to ensure that safety, logistics, and commissioning are coordinated as one seamless operation.



What Sets Us Apart



Cross-Trained Specialists

Safety leaders who understand MEP dependencies, logistics experts who think like commissioning managers, and commissioning specialists who integrate safety and logistics planning from project start.

Proven Track Record

Supporting critical builds with zero lost-time incidents and on-time turnovers. Our track record includes a 73% reduction in OSHA recordable cases, zero recordables on complex hydrogen production projects, and successful multi-state renewable energy implementations spanning 10+ years.

Program-Level Consistency

Standardized processes deployed across multiple sites to protect schedules and budgets while maintaining flexibility to adapt to local conditions and requirements.

Data-Driven Approach

Technology and analytics platforms that turn risk into measurable, actionable insights, with real-time visibility across all coordination functions.

The Results Our Clients Achieve



73%

reduction in OSHA recordable cases

[See case study](#)

47%

reduction in lost-time incidents through integrated safety management

46%

reduction in DART rates via comprehensive safety system implementation

Zero

recordables achieved on complex industrial projects with 120+ employees

Early

completion on projects with unique technology and environmental challenges

Multi-year

partnerships spanning 10+ years across 5+ states for renewable energy clients

Ready to Transform Your Next Hyperscale Project?

SCHEDULE YOUR STRATEGY SESSION →

OnPoint.

Sources

- ¹ National Safety Council: [Injury Facts Work Injury Costs and Lost Time](#)
- ² KPA: [Construction Injuries: A Look at the Direct and Indirect Costs](#)
- ³ National Safety Council: [Workers' Compensation Costs](#)
- ⁴ OSHA: [Estimated Costs of Occupational Injuries and Illnesses and Estimated Impact on a Company's Profitability Worksheet](#)