The Infrastructure Behind Innovation:

How Revizto Powers the Future of Data Centers

revizto

The global demand for data centers has surged. The need for first-of-its-kind physical infrastructure has *never been greater.*

EXECUTIVE SUMMARY

As companies race to train next-generation models and process increasingly complex digital workloads, the need for first-of-its-kind physical infrastructure has never been greater.

Consider this: Microsoft plans to invest approximately $80 billion in 2025 to expand AI-enabled data centers worldwide—a staggering figure that dwarfs the cost of even humanity's most ambitious scientific endeavors. To put that in context, the James Webb telescope cost $10 billion. The US national defense budget is ~$850 billion, so Microsoft is spending 'a little under a tenth of the annual US military and Intelligence Community budget' just on AI[1]. Meta isn't far behind, projecting up to $65 billion in capital expenditure for the same purpose. These investments are not anomalies; global data center capital expenditure is projected to surpass $1 trillion by 2029[2].

However, even the world's largest tech companies, despite their billions in free cash flow, are straining under the scale and complexity of this infrastructure build-out[3]. The challenge is about coordination, speed, security, and cost control.

This is where Revizto steps in.

As a leading Integrated Collaboration Platform, Revizto empowers architecture, engineering, construction, and operations (AECO) teams to deliver high-performance data centers more efficiently and more securely.

THE GLOBAL SURGE IN DATA CENTER DEMAND

The AI revolution is here.

Every text prompt, search query, and automated task creates a cascading demand for processing power, much of which is housed in hyperscale data centers. The resulting infrastructure race is global and urgent.

Hyperscalers like Amazon, Google, and Microsoft are aggressively expanding their physical footprints. At the same time, emerging markets are racing to catch up, building new facilities to meet surging regional demand. However, building these “digital fortresses” is no small feat.

Data center construction today is defined by a set of intense challenges:

- **Fast-tracked timelines,** sometimes requiring full design completion of massive facilities in as little as 10 weeks.
- **Complex multidisciplinary coordination,** integrating architectural, structural, mechanical, and electrical systems.
- **Massive data and model sizes,** involving hundreds of thousands of components.
- **Stringent regulatory and security compliance** across jurisdictions.
- **High stakes communication,** where missteps cost millions.

Revizto's Chief Innovation Officer, Jason Howden, views the escalating demand for data centers as an opportunity for the industry to adopt new strategies to streamline the design and construction process:

> "The rising demand for data centers is a chance to rethink how we build. By embracing modular design and the prefabrication of data center infrastructure, we can dramatically reduce construction time and improve scalability. With integrated project delivery frameworks, we can strengthen alignment across all stakeholders, enabling deeper collaboration and innovation from concept to completion. And with advancements in alternative energy, we can meet power demands onsite and bring data centers closer to where they're needed most."

JASON HOWDEN, CHIEF INNOVATION OFFICER, REVIZTO

Simply put, data center projects require construction workflows that are not just collaborative, but predictive, secure, and efficient. **Revizto delivers exactly that.**

MEETING THE MOMENT:
HOW REVIZTO ELEVATES
DATA CENTER CONSTRUCTION

To meet the accelerating demands of modern data center builds, Revizto provides an integrated platform that addresses the most pressing challenges in speed, coordination, cost, and data protection.

Improved Project Efficiency

Revizto enhances every phase of the project lifecycle through:

- Centralized issue tracking and fully automated clash detection, visualized in 3D and 2D.
- Streamlined communication across all stakeholders, including owners, designers, architects, engineers, contractors and subcontractors.
- Real-time collaboration across global teams—whether in-office, on-site, or remote.
- Faster decision-making and reduced rework through up-to-date coordination models.

Cost Savings and Budget Certainty

In the world of high-stakes builds, avoiding even a single clash or miscommunication can mean saving hundreds of thousands of dollars. Revizto delivers:

- Early clash detection, preventing mistakes before they happen and avoiding schedule delays.
- Real-time model updates, drastically reducing change orders.
- Visual coordination, cutting down on long coordination meetings and email back-and-forths.

Enhanced Security and Access Controls

Data centers are mission-critical infrastructure. They support sensitive cloud infrastructure for governments, financial institutions, and global enterprises. As such, the projects that deliver them require strict access control, secure communication channels, and fully auditable collaboration environments. Revizto was built with this level of security in mind, making it one of the most trusted platforms for data-sensitive construction environments. Revizto's security credentials include:

- SOC 2 Type 2 compliance
- ISO 27001 compliance
- ISO 27017 compliance
- UpGuard Score: 909/950 (Grade A)

In a world where data sovereignty, cybersecurity, and compliance aren't just buzzwords—they're legal mandates—Revizto ensures that AECO teams can move fast without sacrificing security.

Read more about Revizto's security credentials.

Speed of implementation is just as important as platform capability, especially in the AECO industry, where time is a precious resource. Revizto is built to deliver value fast. Unlike many construction tech tools that require months of setup and training, Revizto can be fully deployed on even the most complex projects within 30 days. End users can become proficient in a matter of hours, not weeks, making it easy for CIOs and project leaders to roll out the platform across teams in the office and in the field without disrupting schedules or requiring a steep learning curve.

Data centers are built for resilience, with extensive redundancies in power, cooling, and systems infrastructure. Revizto enhances this reliability by helping asset owners manage long-term maintenance costs through a centralized 3D/2D platform that consolidates all design, construction, and as-built data. Critical MEP systems and infrastructure are easily located and tagged with maintenance data, and when integrated with facility management systems, this enables faster response times, greater efficiency, and more reliable uptime.

Revizto can be fully deployed on even the most complex projects *within 30 days.*

REVIZTO IN ACTION:
REAL-WORLD RESULTS

Revizto has already been leveraged by leading firms around the world to streamline data center delivery, reduce costs, and overcome complex coordination challenges under demanding timelines.

HED — *Red Rum Data Center*

USA

157,600 Sqft

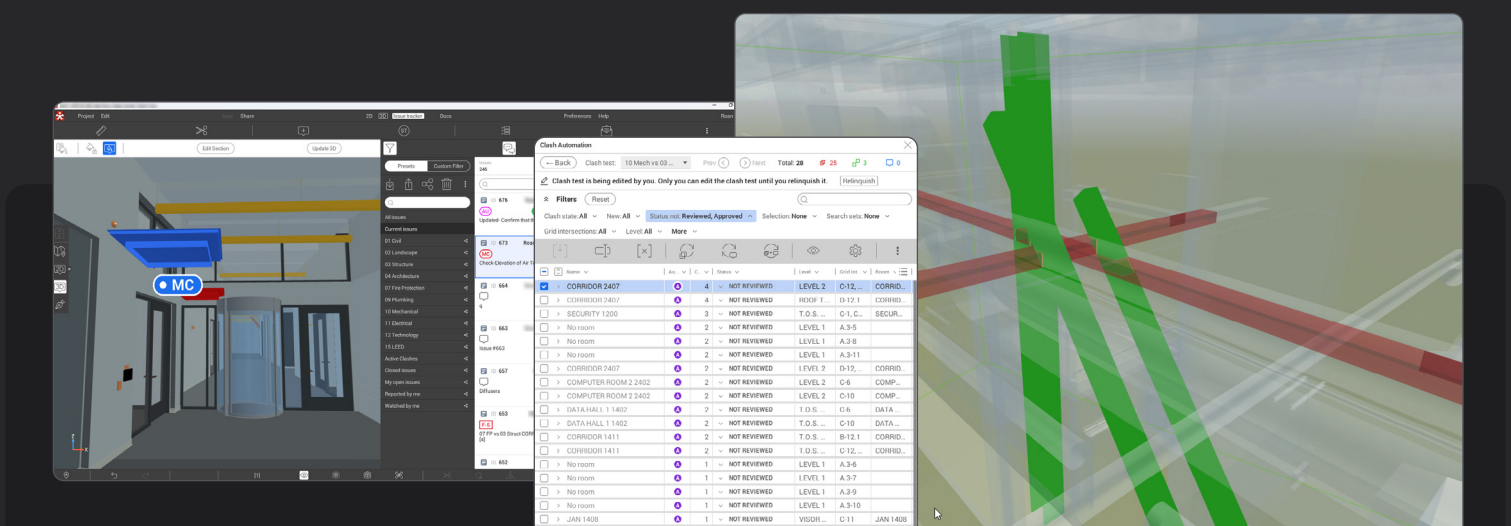
Project Size

Located on a portion of an existing 15-acre redevelopment site at the gateway to Data Center Alley in Ashburn, Virginia, the Red Rum Data Center project is set to be a prototype for future data center developments for GI Partners, an investment firm that has owned, operated and developed data centers for over 20 years. When architecture and engineering firm HED was contracted to deliver a 157,600-square-foot data center in Ashburn, VA, the team knew they were facing a highly complex project, broken into three interconnected phases. They turned to Revizto to centralize coordination across multiple disciplines, stakeholders, and locations. From the outset, Revizto acted as the single source of truth, enabling team members to work from a unified, up-to-date 3D model with real-time issue tracking.

For HED, one of the most critical tools within Revizto is the Issue Tracker. The project team regularly used it on the data center project to assign, track and resolve issues with seamless integration between the 3D model and the issue tracking tool, which helped the multidisciplinary team collaborate effectively on issue resolution.

ROAN ISAKU, PRACTICE TECHNOLOGY LEADER, HED

> “One of the biggest advantages of Revizto on this project and many others is its ease of use. Anyone can pick up the tool and walk through a model. Revizto's ability to accommodate non-Revit users, such as civil engineers or furniture vendors, is a real value when it comes to communicating designs, issue tracking and overall collaboration.”



Ultimately, Revizto helped HED maintain velocity on a fast-paced schedule while avoiding costly field rework. The firm was so impressed with the results that it began extending Revizto licenses to external design partners on future projects.

ROAN ISAKU,
PRACTICE
TECHNOLOGY
LEADER, HED

> “We believe in the benefits of Revizto for communication so much that we now provide Revizto to our external design partners. That’s how important it is to us and how much value it adds to communication of design details and more seamless project delivery.”

Haskoning — *Hyperscale Data Center Project*

NL

10 Weeks

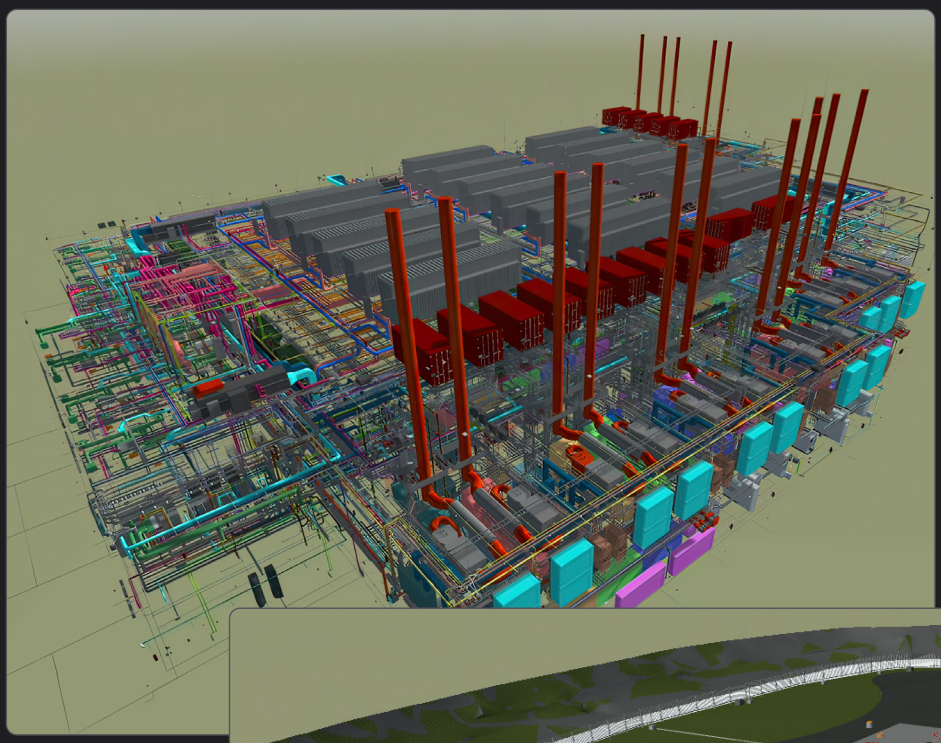
Full Design Delivery Timeline

Engineering firm Haskoning was tasked with delivering **one of Europe's largest hyperscale data centers** under extremely tight time constraints: full design delivery in just 10 weeks. With a facility footprint spanning the equivalent of 14 football fields and multiple engineering disciplines contributing models concurrently, traditional coordination tools would have quickly been bottlenecked. Their Mission Critical Facilities team uses Revizto to tackle the mind-boggling complexity of massive data center projects where every detail matters and delays can cost millions.

The ability for the team to quickly get Revizto up and running was critical. From day one, teams could coordinate on the same cloud-based model, mark up issues visually, and assign tasks in real time. What's more, Revizto's user-friendly interface allowed all contributors—from seasoned BIM managers to field-level engineers—to collaborate effectively with minimal training.

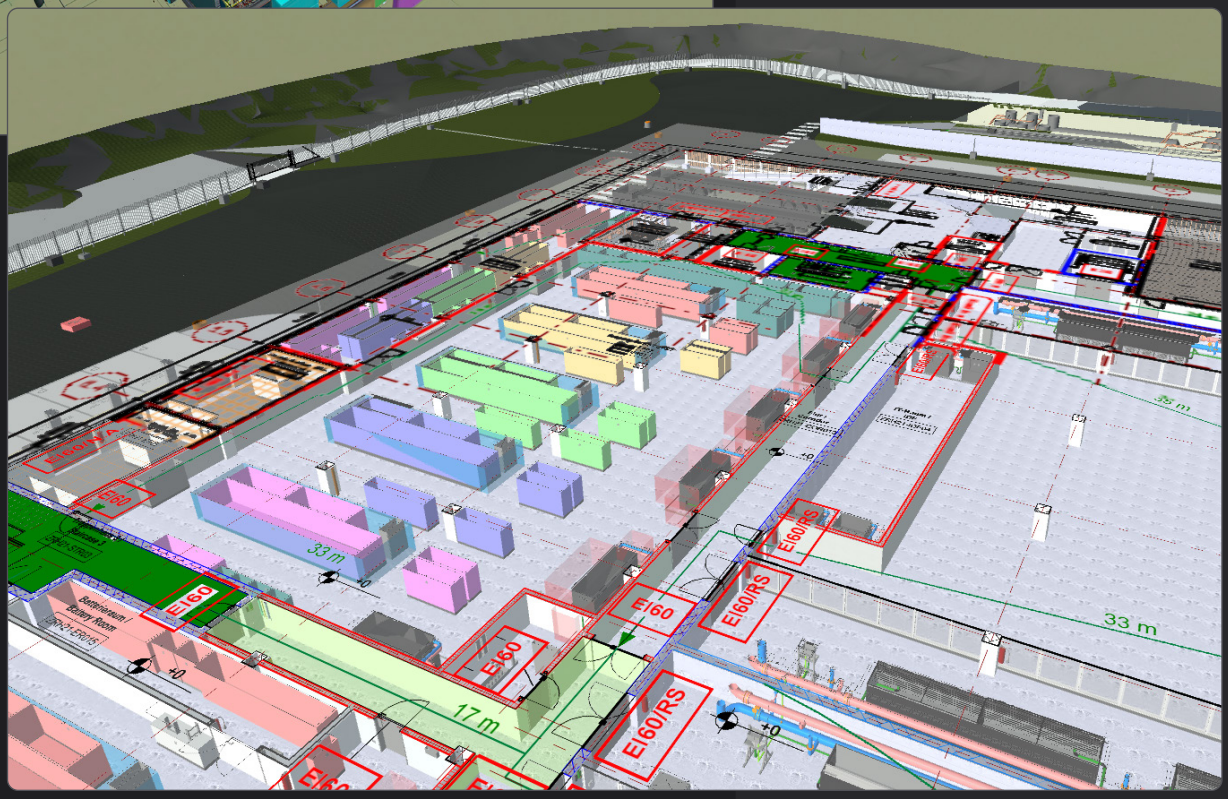
> "We spend one hour training the team... After one hour of Revizto, they understand the basics. And I don't have to fight them; they want to. We see a lot of our partners have now bought their own licences. That shows its power."

JEROEN VAN DIJK,
DESIGN MANAGER,
HASKONING



14 Football Fields

Facility Footprint



The integration of Revizto in Haskoning workflow was significant, resulting in tangible time and cost savings. The automated clash detection feature caught thousands of potential conflicts, enabling the team to resolve them weeks before they could cascade into construction delays. Coordination meetings that previously lasted four hours were trimmed down to one, significantly freeing up valuable design time.

The result was a high-performance project delivered at high velocity, without sacrificing quality or risking compliance.

Stantec — *Hyperscale Data Center Project*

AUS

2–5%

Reduction in Rework Costs

A global leader in sustainable engineering, architecture, and consulting, Stantec is renowned for handling large-scale, complex projects. In managing a $450 million hyperscale data center project, Stantec faced the challenge of coordinating multiple firms and disciplines (including fabricators and contractors for steelwork and precast elements) while balancing budget, schedule, and design integrity. Revizto became the central hub for the project's digital delivery, enabling seamless 3D/2D coordination between the structural, architectural, and mechanical teams. The platform allowed Stantec to visualize design conflicts in context and work collaboratively with partners to address them before they escalated.

> "Revizto, especially with its integrated clash detection capabilities, was a game changer for us. It improved our coordination and collaboration workflows significantly. We made the collective decision to move away from our existing platform and adopt Revizto on all of our hyperscale data center projects across the ANZ region. The feedback from clients has been overwhelmingly positive."

ASH CARR,
BIM MANAGER AND VDC LEAD AT STANTEC

$450 Million

Project Budget

Revizto's issue tracking proved especially valuable during virtual coordination meetings. Teams could walk through the live model together, flag issues on the fly, and assign follow-up actions, all within the same interface. This cut down on post-meeting documentation time and ensured every task had ownership and accountability. The intuitive model navigation also enabled project stakeholders – many of whom were not BIM specialists – to fully engage in reviews, improving transparency and buy-in.

For Carr and the team at Stantec, Revizto has become an indispensable tool, not just for coordination but also for overall project management. Stantec has observed a marked reduction in rework costs since implementing Revizto. They reported an estimated 2–5% reduction in rework costs on this and similar projects, translating into millions saved across their portfolio.

> "Preventing rework is where we see the biggest ROI from Revizto. Issues that could have been costly in the field were caught and addressed in the coordination phase."

ASH CARR,
BIM MANAGER AND VDC LEAD AT STANTEC

CONCLUSION: BUILDING TOMORROW'S INFRASTRUCTURE TODAY

The global data center boom is a generational transformation of the built environment. It brings enormous promise, but also new levels of complexity, urgency, and risk.

Revizto empowers owners and project teams to meet this moment with tools built for:

- Faster, smarter design coordination
- Secure, compliant collaboration
- Real-world ROI through reduced rework and increased control
- Operational efficiency, consolidating complex building data into an accessible, navigable 3D/2D environment

As we collectively build the digital infrastructure of the future, Revizto is proud to be the trusted platform of the world's leading AECO firms.

REFERENCES

1 Jack Clarks' Import AI Newsletter #396, 2025
2 Dell'Oro Group, 2025
3 Larry Fink's 2025 Annual Chairman's Letter to Investors

About Revizto

Revizto is on a mission to fix one of the most broken, high-stakes systems in the global economy: construction. Today construction accounts for $13 trillion in annual spending, yet it remains one of the least efficient industries. Projects routinely go over budget, run behind schedule, and suffer from chronic miscommunication across stakeholders, at the expense of public and private investors.

Revizto enables the people behind the world's most important structures to do their best work. We connect architects, engineers, contractors and owners to deliver projects on time and on budget. By uniting teams in one shared 2D/3D space across the entire building lifecycle, we drive maximum collaboration and results. Our technology is built on a gaming engine, making it unbreakable for construction's toughest conditions. It works everywhere teams need it – in the office or on-site, across all devices.

Backed by Summit Partners and trusted by global firms like Jacobs, AECOM, AtkinsRealis, McCarthy, Skanska, and Stantec, Revizto empowers everyone to deliver critical infrastructure without risk or waste, for a world that's built to last.

Ready to see how we can support your data center project?
Book a demo here.