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Construction Project Management in 2025: What Will Change?

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EMERGING TRENDS IN CONSTRUCTION MANAGEMENT

While the construction industry has traditionally been seen as slow to embrace change, technology is expected to continue transforming the business in 2025 benefitting construction project management. Firms that stay ahead by leveraging tech advancements are likely to see their profits rise and build a positive brand image among both current and future customers and employees.

Technological innovations are expected to keep empowering construction project managers to tackle challenges. These advancements can help increase productivity and safety, reduce waste, and better interconnect people, equipment, and data. Additionally, tech is likely to play a key role in retaining and recruiting valuable workers.

CONSTRUCTION TECHNOLOGY INNOVATIONS

Technology is expected to keep helping project managers modernize construction methods and boost productivity and safety. The construction industry can also expect more improvements in robotic technologies, like drones. These technologies will likely make site inspections and ongoing monitoring much faster and more accurate, even when done from a distance. Better cameras and sensors are expected to keep giving accurate real-time data, including problems that are not seen from the ground.

Other robotic technologies are set to become more common on jobsites. Robots will keep improving worker efficiency and



performance, enhancing safety, and potentially reducing the number of workers needed. They are often used for repetitive tasks like demolition, material transport, and bricklaying. These robot technologies are most effective when paired with digital tools, such as construction jobsite management software.

FUTURE OF CONSTRUCTION SOFTWARE

The growing use of digital tools, alongside and integrated with technology, will continue to interconnect people, equipment, and data in the construction industry. Tech can enhance every role, from the back office to project management and post-construction work.

The most innovative technologies will harness AI and machine learning to optimize construction processes. These tools can predict project outcomes, automate repetitive tasks, and analyze large datasets to provide actionable insights,

ultimately boosting efficiency and reducing human error.

This increased efficiency will also help project managers conserve materials by minimizing rework and the associated waste, leading to greener jobsites. A smaller carbon footprint benefits everyone involved in a project, and firms with an ecoconscious reputation are more likely to attract new business.

SUSTAINABILITY IN CONSTRUCTION PRACTICES

Along with buildings wired to support advanced technology infrastructure, business owners are increasingly looking for green and sustainably built structures. Sustainable construction is expected to become even more standard in 2025. Forward-thinking construction firms will stay ahead of the competition by anticipating regulations and boosting efficiency while meeting these customer preferences. Buildings designed for long-term energy conservation, using materials that save energy, water-saving systems, and solar technologies, will keep customers happy with lower operational costs. Solar panels, in particular, are likely to gain popularity as they help reduce operational and maintenance expenses and prevent business disruptions during power outages.

Sustainability will also play a bigger role in the construction process itself. For instance, older diesel-powered excavators, loaders, and compactors might be phased out in favor of more practical electric alternatives. Both customers and staff will appreciate that eco-friendly equipment generates less noise and toxic emissions. Workers will also benefit from equipment that requires less maintenance, vibrates less, and can be easily and quickly turned on and off, further reducing emissions. Like any new technology, sustainable tech comes with a learning curve, but the benefits often outweigh the initial costs.

PROJECT MANAGEMENT IN CONSTRUCTION: RECRUITING AND RETAINING LABOR

As technology continues to enhance all areas of construction, project managers will need to develop their existing staff or recruit workers with a broader range of tech skills. While tech can help employees accomplish more in less time, freeing them up for higher-value tasks, construction project managers still face the challenge of labor shortages and a shrinking pool of skilled and unskilled workers.

Even though technology can make work safer and less

physically demanding, older employees will continue to age out of the profession. To tackle this, construction firms will need to attract young workers, including those with tech skills who might not have considered construction as a viable or attractive career. Forward-thinking firms will highlight the diverse and impactful career opportunities in construction and attract these workers through work-study programs and apprenticeships in partnership with trade schools or even high schools. This approach gives both firms and workers a chance to see if it's a good fit before making a long-term commitment. Another major draw for new workers is the opportunity to start a career without the burden of student loan debt.

Once firms attract this talent, they will need to focus on retention. Younger workers, who expect tech integration and are drawn to continually engaging challenges, are more likely to stay with firms that offer a positive culture, including job rotation, mentorship, skills training, and wellness initiatives. Young workers particularly value skill enhancement because it ensures steady and more interesting work.

While some construction firms will struggle with shortages of workers across the board, those that cater to the growing demand for buildings that must accommodate increasingly data-centric, tech-reliant businesses will have an even greater need for electricians and welders onsite.



About the Article

The <u>Builder Blog by RedTeam</u> was launched in 2023. It serves as a resource for construction professionals with industry insights, in-depth articles about solutions, and helpful customer stories. From best practices to workflow guides, the blog builds on RedTeam's expertise and knowledge of the industry to help create a better tomorrow for everyone in construction. You can learn more about RedTeam at <u>redteam.com</u>.

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