

## INNOVATION AND THE DIGITAL ERA IN CONSTRUCTION

**Innovation serves as the driving force propelling the construction industry forward, enabling companies to stay up to date, remain competitive, and make a significant impact on society.**

In today's rapidly evolving digital environment and changing market demands, embracing innovation has become a necessity rather than a choice to maintain competitiveness. By investing in innovation now, companies can reap substantial returns on their investment in the future.

With the fast pace of technological advancements, innovation has become an indispensable requirement for construction companies to stay current and competitive. For example, by fully embracing digital technologies, the global construction industry stands to unlock an estimated \$1.6 trillion in cost savings by 2035<sup>1</sup>.



By harnessing digital technologies, construction companies can transform their operations. AI-powered algorithms can analyse vast amounts of data in real time, enabling companies to make data-driven decisions that optimise resource allocation, mitigate risks, and enhance overall project performance.

**Moreover, the integration of advanced technologies and digital tools streamlines construction processes, minimises errors, optimises project timelines, and ensures the long-lasting reliability of structures.**

For example, the utilisation of Building Information Modelling (BIM) technology enhances visualisation, planning, and coordination throughout the construction lifecycle, meaning construction projects benefit from higher-quality construction and increased efficiency.



Innovation not only brings about efficiency, productivity, and durability but also offers a sound return on investment in the long term. **Companies that prioritise innovation and embrace digital transformation can increase productivity by up to 50% and reduce project costs by 20-30%<sup>2</sup>.**

Embracing innovative practices and leveraging advanced technologies enable companies to identify and implement cost-reduction strategies. For example, BIM technology enhances accuracy and durability even before the construction process begins, preventing errors and ensuring optimal compatibility of materials. This, in turn, reduces the need for costly rework and minimises the environmental impact.

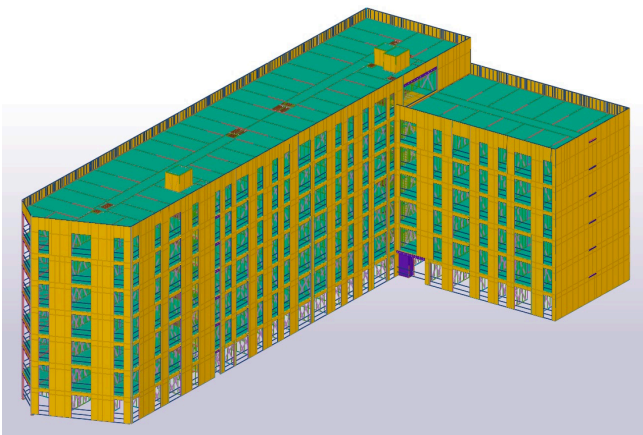


1 Forbes

2 McKinsey & Co

Similarly, the adoption of offsite construction techniques minimises labour and material expenses. Construction companies that fully embrace offsite construction experience a range of benefits, including faster build times (20–40% faster)<sup>3</sup>, reduced labour requirements (50% less labour onsite)<sup>4</sup>, and significantly less waste (90% reduced waste)<sup>5</sup> compared to traditional construction methods. **Through this type of material innovation, companies can streamline processes, eliminate inefficiencies, and achieve substantial cost savings.**

Etex Group is at the forefront of innovation in the construction industry. Its offsite construction brand, Remagin, harnesses the group's extensive range of material technologies, testing facilities, and expertise in light gauge steel frames, to deliver certified solutions that deliver exceptional performance. Remagin's offering is built upon Etex's range of high performance building materials, which it integrates to provide solutions that are specifically tailored and tested for offsite construction. These solutions provide a multitude of benefits that surpass traditional construction methods, including significantly shorter construction times, reduced waste, consistent quality, improved efficiency, and enhanced sustainability.



**Remagin capitalises on the innovative technology made available through the endorsement of Etex. Innovation is deeply ingrained in its DNA, and the resources and financial support provided by the group enable Remagin to drive innovation forward.** With in-house design teams comprising skilled building designers and structural engineers, Remagin utilises software to create the most efficient and compliant building superstructures. Each solution is rendered into a 3D, BIM-ready model, allowing for virtual modelling to ensure optimal performance.

By leveraging technology and innovation, companies not only achieve higher levels of efficiency and productivity but also enhance safety, reduce waste, and deliver projects of exceptional quality. It is clear that embracing innovation is not just about staying current; **it is the key to driving success and unlocking the full potential of the construction industry in today's society.**

3 Etex Group

4 UK Government – Construction 2025: Industrial Strategy for Construction

5 National Institute of Standards and Technology (NIST)